



OWNER
DEPARTMENT OF ENVIRONMENTAL SERVICES

Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900, Arlington, VA 22201
Phone: 703.228.3629 Fax: 703.228.3606 www.arlingtonva.us
Email: AKaffe@arlingtonva.us

ENGINEER
Kimley-Horn & Associates, Inc.
11400 Commerce Park Drive, Suite 400, Reston VA 20191
Phone: 703.674.1300 Fax: 703.674.3500
Email: Andy.Smith@kimley-horn.com

Construction Drawings For:
Washington Boulevard
and N. Sycamore Street

THIS PROJECT CONSISTS OF TRAFFIC SIGNAL MODIFICATIONS AT THE INTERSECTION OF WASHINGTON BOULEVARD WITH N. SYCAMORE STREET. THE SIGNAL MODIFICATIONS INCLUDE REMOVING ALL EXISTING EQUIPMENT AND REPLACING WITH NEW EQUIPMENT, ACCESSIBLE PEDESTRIAN SIGNAL DEVICES, AND LIMITED SIDEWALK AND CURB AND GUTTER MODIFICATIONS. ALL WORK TO BE PERFORMED WITHIN EXISTING RIGHT OF WAY OR EASEMENTS.

VDOT PROJECT NO. 9999-000-R75
VDOT UPC NO. 113252
STORM WATER MANAGEMENT # SWM 20-0197

Location Map

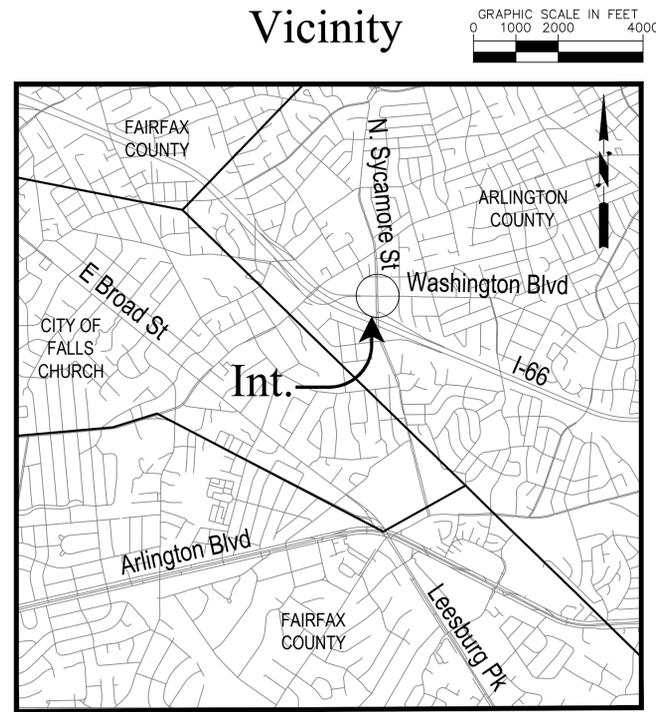


Table of Contents:

C-0000 Cover Sheet
C-0001 Legend and Survey Data
C-0002 - C-0006 General Notes and Details
C-0100 Existing Conditions Plan and Profile
C-0200 Geometric Control Plan
C-0300 Phase 1 Erosion Control Plan & Demolition Plan
C-0310 Phase 2 Erosion Control Plan
C-0400 Proposed Plan
C-0500 Ramp Details
C-0600 - C-0601 Curb Return Profiles
C-0700 Pre Development Drainage Divides
C-0710 Post Development Drainage Divides
C-0720 Drainage Calculations
C-0800 Pavement Marking & Signing Plan
C-0900 - C-0901 Transportation Management Plan Notes & Details
C-0902 Maintenance of Traffic
C-1000 - C-1001 Traffic Signal Notes & Details
C-1100 Traffic Signal Plan
C-1200 Communication Plan

- EXHIBIT A Streetlight Photometrics Exhibit
EXHIBIT B AutoTURN Exhibit
EXHIBIT C SWPPP Exhibit

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA
WASHINGTON BOULEVARD - MINOR ARTERIAL - SPEED LIMIT 30 MPH
AADT (2019) 12,000 VPD
AADT (DESIGN YR) NA
V DESIGN (mph) 30

ALL TRAFFIC SIGNALS ARE OWNED, MAINTAINED AND OPERATED BY ARLINGTON COUNTY. TRAFFIC SIGNAL DESIGN SHALL BE IN ACCORDANCE WITH LATEST ARLINGTON COUNTY TRAFFIC SIGNAL STANDARDS AND SPECIFICATIONS.

I CERTIFY THAT THIS PROJECT WAS BUILT IN SUBSTANTIAL CONFORMANCE WITH THIS PLAN, UNLESS DULY NOTED IN THE ABOVE REVISION BLOCK.

PROJECT MANAGER DATE
CONSTRUCTION MANAGER DATE

Signal Notes



A. POLES AND FOUNDATIONS

- 1. MAST ARM LENGTH IS TO BE AS SHOWN ON PLAN AND ALL MAST ARMS ARE TO BE FIELD DRILLED ONLY.
2. MAST ARM POLES SHALL BE DESIGNED TO THE PROPER HEIGHT TO ACCOMMODATE A STREET LIGHT LUMINAIRE AND INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS.
3. MAST ARM POLE FOUNDATIONS SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS AND SPECIFICATIONS. ALL POLES SHALL HAVE A 6-BOLT PATTERN.
4. AT THE COUNTY'S REQUEST, THE CONTRACTOR SHALL DIG TEST PITS TO VERIFY THAT SIGNAL POLE FOUNDATIONS WILL NOT CONFLICT WITH UNDERGROUND UTILITIES AND THAT FOUNDATIONS WILL FIT WITHIN THE EXISTING RIGHT-OF-WAY.
5. SIGNAL POLES AND MAST ARMS SHALL BE NON-ORNAMENTAL. COBRA LIGHTING SHALL BE LED.
6. COBRA LIGHTING SHALL BE LED TYPE RFL-145W64LED4K-T-R2M-UNIV-DMG-PH8-RCD7-[USA-003]-BK. DECORATIVE POST-TOP LIGHTING SHALL BE HADCO DECORATIVE POST-TOP LUMINAIRE WITH RELUME LED KIT (UAZ XRE LED 57.69W).

B. CONTROLLER AND FOUNDATION

- 1. NEW CONTROLLER CABINETS SHALL BE TS2, P TYPE WITH BATTERY BACKUP PER ARLINGTON COUNTY REQUIREMENTS.
2. CONTROLLER SHALL BE INTELIGHT X-3 AND SHALL BE INSTALLED AND SET AS FOLLOWS:
2.1 TO REST IN PHASE 2 & 6 GREEN INTERVAL
2.2 TO START/RESTART IN PHASE 2 & 6 YELLOW CHANGE INTERVAL
3. THE CONTROLLER CABINET AND FOUNDATION SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS 66-01. 66-02, AND 70-01.
4. THE COUNTY WILL PROVIDE SIGNAL TIMINGS TO THE CONTRACTOR FOR THE CONTROLLER WHEN THE INTERSECTION IS TOTALLY PREPARED FOR OPERATION. THE CONTRACTOR SHALL NOTIFY THE COUNTY IN WRITING 10 DAYS IN ADVANCE OF REQUIRING FINAL TIMINGS.

C. TRAFFIC SIGNAL HEADS

- 1. ALL NEW VEHICULAR SIGNAL SECTIONS SHALL BE 12 INCHES IN DIAMETER CAST ALUMINUM WITH LED DISPLAYS.
2. PEDESTRIAN SIGNAL HEAD SECTIONS SHALL BE CAST ALUMINUM WITH LED DISPLAYS (COUNTDOWN).
3. ALL SIGNAL HEADS SHALL BE YELLOW IN COLOR.

D. DETECTORS

- 1. ALL NEW PEDESTRIAN PUSH BUTTON STATIONS SHALL CONFORM TO ARLINGTON COUNTY'S SPECIFICATIONS FOR ACCESSIBLE SIGNAL DESIGN AND SHALL USE POLARA NAVIGATOR VIBRO-TACTILE/AUDIO PUSH BUTTON ASSEMBLIES UNLESS OTHERWISE SPECIFIED.
2. NEW OVERHEAD VIDEO DETECTION SHALL BE FLIR CAMERAS AND SHALL BE INSTALLED IN ACCORDANCE WITH COUNTY REQUIREMENTS.
3. EMERGENCY VEHICLE PRE-EMPTION (EVP) EQUIPMENT (GTT MODEL M711 OR M721), OR APPROVED SUBSTITUTE, SHALL BE INSTALLED COMPLETE WITH DISCRIMINATOR CARDS, WIRING, ETC. IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS.
4. EVP TO BE MOUNTED ON VEHICLE HEAD MOUNTING BRACKET OR AS APPROVED BY THE ENGINEER IN THE FIELD.

E. CONDUIT, CONDUCTORS, AND ELECTRICAL

- 1. ALL JUNCTION BOXES SHALL HAVE THE WORDS "ARLINGTON COUNTY TRANSPORTATION" CAST IN THE LID. ALL JUNCTION BOXES SHALL BE INSTALLED PER STANDARDS 61-01, 61-02, 61-03, AND 61-04.
2. METER PEDESTAL SHALL BE INSTALLED PER COUNTY STANDARDS. UNDERGROUND SERVICE SHALL BE OBTAINED FROM THE NEAREST UTILITY POLE OR SERVICE POINT. CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL AND COORDINATING WITH POWER SERVICE COMPANY FOR CONNECTION.
3. CONDUIT SYSTEM SHALL BE ADDED TO CONNECT EXISTING COMMUNICATION CABLE PLANT TO THE NEW CONTROLLER CABINET LOCATION AS DIRECTED BY THE COUNTY ENGINEER.
4. ALL CONDUIT ENTERING INTO JUNCTION BOXES SHALL NOT EXTEND OVER 3" MAXIMUM NOR 2" MINIMUM INSIDE THE JUNCTION BOXES, AND SHALL BE FITTED WITH BELL ENDS OR BUSHING.
5. ALL JUNCTION BOXES SHALL HAVE A GROUND ROD INSTALLED. ALL JUNCTION BOXES SHALL BE PROPERLY CONNECTED TO THE INTERSECTION GROUNDING SYSTEM. METAL LIDS SHALL BE BONDED TO THE GROUNDING SYSTEM.
6. CONTRACTOR IS TO VERIFY DEPTHS OF UTILITIES AT PROPOSED CONDUIT CROSSINGS PRIOR TO EXCAVATING CONDUIT TRENCHES OR BORING.
7. ALL CONDUITS BENEATH ROADWAYS SHALL BE DIRECTIONAL DRILLED UNLESS DIRECTED OTHERWISE BY THE COUNTY CONSTRUCTION MANAGER. WHERE DIRECTED ON THE PLANS OR BY THE CONSTRUCTION MANAGER, THE CONTRACTOR SHALL INSTALL SPARE CONDUITS WITH PULL TAPE AND TRACER WIRE FOR ROAD CROSSINGS.
8. ALL EXISTING CONDUIT AND CABLES ARE BASED ON RECORD DRAWINGS OR WERE ESTIMATED. CONTRACTOR SHALL VERIFY CONDUIT FILL CAPACITY IN EXISTING CONDUITS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY IF CONDUIT CAPACITY IS NOT AVAILABLE IN EXISTING CONDUIT FOR NEW CABLES.

- 9. NEW CCTV CAMERAS SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY REQUIREMENTS. CONTRACTOR SHALL CONFIRM MOUNTING LOCATION OF CCTV CAMERA WITH COUNTY PRIOR TO INSTALLATION.
10. CONTRACTOR TO VERIFY THE CONDUIT AND % FILL. IF THERE IS NOT ENOUGH CAPACITY IN CONDUIT, THEN THE CONTRACTOR SHALL INSTALL NEW CONDUIT.
11. ALL PROPOSED CONDUIT SHALL HAVE #6 AWG (EGC) & TRACER WIRE FOR GROUNDING SYSTEM.
12. REMOVE ALL EXISTING UNUSED RISERS, JUNCTION BOXES, AND CABLES.

F. SIGNS

- 1. ALL MAST ARM SIGNS SHALL BE MOUNTED IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS. SIGNS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE.
2. STREET NAME SIGNS SHALL HAVE A WHITE LEGEND ON GREEN BACKGROUND. CONTRACTOR SHALL SUBMIT SIGN DETAILS TO COUNTY TO REVIEW. THE DIMENSIONS PROVIDED ON PLANS ARE ESTIMATED.

G. DEMOLITION/SALVAGE

- 1. ALL EXISTING SIGNAL EQUIPMENT IS TO BE REMOVED & RETURNED TO ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES LOCATED AT 4300 29TH ST S., ARLINGTON, VA 22206.
2. ALL EXISTING SIGNAL POLE FOUNDATIONS SHALL BE DEMOLISHED IN ACCORDANCE WITH ARLINGTON COUNTY SPECIFICATIONS.

H. COMMUNICATIONS

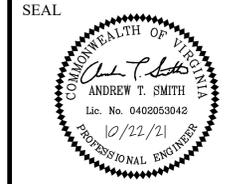
- 1. EXISTING COUNTY FIBER JUNCTION BOXES AND CONDUITS CONTAIN LIVE FIBER OPTIC CABLES. THE CONTRACTOR SHALL NOT CUT OR DAMAGE THE COUNTY'S EXISTING FIBER CABLES.
2. ALL FIBER OPTIC CABLE INSTALLATION, REMOVAL, SPLICING, AND TESTING SHALL BE PERFORMED BY THE COUNTY AT THE CONTRACTOR'S EXPENSE. CONTRACTOR MAY CONTRACT DIRECTLY WITH THE COUNTY'S FIBER CONTRACTORS. UPON REQUEST 703-228-7726, THE COUNTY WILL PROVIDE THE CONTACT INFORMATION FOR CURRENT QUALIFIED COUNTY FIBER CONTRACTORS.
3. CONTACT ARLINGTON COUNTY DTS FOR FIBER OPTIC CABLE REMOVAL OR INSTALLATION AT LEAST 10 BUSINESS DAYS IN ADVANCE.
4. CONTRACTOR SHALL FURNISH FIBER PATCH PANEL FOR INSTALLATION BY THE COUNTY. FIBER PIGTAIL SHALL BE APPROPRIATE LENGTH TO ALLOW FOR 50 FEET OF SLACK IN EACH INTERMEDIATE JUNCTION BOX. CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PATCH PANEL (INDICATING THE TAIL LENGTH) FOR COUNTY REVIEW PRIOR TO ORDERING.

- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF PROPOSED JUNCTION BOXES AND CONDUITS INCLUDING ALL APPURTENANCES SUCH AS GROUND RODS, TRACER WIRE, PULL TAPE, ETC.
6. ALL NEW CONDUITS SHALL HAVE PULL TAPE INSTALLED BETWEEN JUNCTION BOXES AND TRACER WIRE INSTALLED WITHIN OR BESIDE AT LEAST ONE OF THE CONDUITS. TRACER WIRE SHALL BE CONNECTED TO THE GROUND RODS INSTALLED IN THE ADJACENT JUNCTION BOXES.
7. DO NOT SPLICE TRACER WIRE.
I. INSPECTIONS
1. THE CONTRACTOR SHALL CONTACT THE COUNTY CONSTRUCTION MANAGER FOR INSPECTIONS THROUGHOUT CONSTRUCTION AS REQUIRED BY THE CONSTRUCTION MANAGER.
2. THE COUNTY SHALL VERIFY POLE LOCATIONS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL NOTIFY MR. SHAHID MOHIUDDIN, 703-228-7555 TO SCHEDULE INSPECTION PRIOR TO EXCAVATION, AND AGAIN PRIOR TO POURING CONCRETE. STAKEOUT IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS DIRECTED OTHERWISE.
3. THE CONTRACTOR SHALL CONTACT THE COUNTY CONSTRUCTION MANAGER WITHIN 7 BUSINESS DAYS OF SIGNAL ACTIVATION. ALL POWER AND COMMUNICATIONS SHALL BE IN OPERATION AT THE TIME OF ACTIVATION UNLESS APPROVED BY THE COUNTY CONSTRUCTION MANAGER.

Prepared By:



DEPARTMENT OF ENVIRONMENTAL SERVICES
Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606



APPROVALS DATE
Traffic Signal Engineer: 10/28/21
Traffic Engineering Manager: 11/05/2021
Water, Sewer, Streets Bureau Chief: 12.23.2021
TE&O Bureau Chief: 11/05/2021
Transportation Director: 12/23/21

REVISIONS DATE

Project Name and Location: Washington Boulevard and N. Sycamore Street
COVER SHEET
ID #107
ARLINGTON COUNTY, VIRGINIA

Designed: AS
Drawn: NM
Checked: GG
Miss Utility Transmittal #:

Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 25' VERT. N/A

Sheet C-0000

Existing	Symbols	Proposed
	Storm Str. #	
	Catch Basin	
	Sanitary Manhole	
	Sanitary Str. #	
	Fire Hydrant	
	Watermain Reducer	
	Water - Valve	
	Blowoff Valve	
	Water - Cross	
	Water - Tee	
	Water - Typical Bend	
	Water Meter	
	Water Cap	
	Water - Manhole Cover	
	Siamese Connection	
	CableTV Pedestal	
	Electrical Box	
	Telephone Pedestal	
	Cobrahead Light	
	Carlyle Light	
	Ground Light	
	Light Pole	
	Utility Pole	
	Guy Wire	
	Utility Cover	
	Gas Valve	
	Gas Line Marker	
	Test Hole	
	Bollard	
	Mailbox	
	Parking Meter	
	Sign	
	Traffic Mast Arm Pole	
	Traffic Pedestrian Pole	
	Traffic Control Box	
	Traffic Electrical Box	
	Traffic Junction Box	
	Traffic Service Meter	
	Coniferous Tree	
	Deciduous Tree	
	Bush/Hedge/Shrub	
	Construction Notes	
	Benchmark	
	Monument (GPS)	
	Monument	
	Iron Rod Found	
	Iron Pipe Found	
	Rebar Rod Found	
	P.K. Nail Found	
	Traverse	
	North Arrow	
	Curb Transition	

LEGEND AND SURVEY DATA

SANITARY SEWER TABULATION

#EX 4216
TOP = 280.48
C/L INV. = 275.72

#EX 4217
TOP = 280.45
C/L INV. = 275.56

#1995
TOP = 280.57
C/L INV. = 276.10

#1996
TOP = 287.04
C/L INV. = NO ACCESS

#1997
TOP = 287.08
C/L INV. = 281.46

#5392
TOP = 286.99
C/L INV. = 280.78

#5393
TOP = 293.00
C/L INV. = 282.51

#5394
TOP = 293.14
C/L INV. = 282.86

#6208
TOP = 287.13
C/L INV. = 281.29

#6210
TOP = 312.48
C/L INV. = 305.99

#6471
TOP = 313.72
C/L INV. = 299.71

#6500
TOP = 293.00
C/L INV. = 282.48

#6519
TOP = 306.34
C/L INV. = 296.68

#8079
TOP = 292.40
C/L INV. = 283.40

#8080
TOP = 289.18
C/L INV. = 283.89

#11203
TOP = 285.87
C/L INV. = 279.49

#11204
TOP = 288.88
C/L INV. = 280.74

#11811
TOP = 275.49
C/L INV. = 272.63

#12478
TOP = 306.28
C/L INV. = 296.66

#12479
TOP = 279.32
C/L INV. = 274.92

#12480
TOP = 278.20
C/L INV. = 274.27

#15222
TOP = 295.91
C/L INV. = 286.87

#15224
TOP = 287.79
C/L INV. = 283.54

STORM SEWER TABULATION

#7777
TOP = 290.44
INV. OUT = N/A 84" RCP (23844)
C/L INV. = 277.54

#8055
TOP = 287.45
INV. IN = N/A 84" RCP (23844) (NO ACCESS)
INV. IN = N/A 18" RCP (8076) (NO ACCESS)
INV. OUT = N/A 84" RCP (8097) (NO ACCESS)
C/L INV. = 274.20

#8076
TOP = 287.33
INV. IN = 284.73 15" RCP (8093)
INV. IN = 284.80 18" RCP (23847)
INV. OUT = 284.23 18" RCP (8055)

#8088
TOP = 287.81
INV. OUT = 283.26 15" RCP (8097)

#8093
TOP = 286.85
INV. OUT = 284.95 15" RCP (8076)

#8097
TOP = 287.29
INV. IN = N/A 84" RCP (8055) (NO ACCESS)
INV. IN = N/A 15" RCP (8101) (NO ACCESS)
INV. IN = N/A 15" RCP (8088) (NO ACCESS)
INV. IN = N/A 15" RCP (6333) (NO ACCESS)
INV. OUT = N/A 96" RCP (8272) (NO ACCESS)
C/L INV. = 271.66

#8097A
TOP = 287.16
INV. IN = 279.15 15" RCP (8097B)
INV. OUT = 279.08 15" RCP (8097)

#8097B
TOP = 289.71
INV. OUT = 284.76 15" RCP (8097A)

#8101
TOP = 287.22
INV. OUT = 283.57 15" RCP (8097)

#8179
TOP = 288.72
INV. OUT = 284.97 15" RCP (#8192)

#8184
TOP = 302.82
INV. OUT = 295.40 15" RCP (8200)

#8192
TOP = 287.22
INV. IN = 284.19 15" RCP (8179)
INV. OUT = 284.04 15" RCP (8272)

#8194
TOP = 287.32
INV. IN = 284.57 15" RCP (8200)
INV. OUT = 284.39 15" RCP (8272)

#8200
TOP = 295.14
INV. IN = 288.16 15" RCP (8184) INV. OUT = 287.91 15" RCP (8194)

STORM SEWER TABULATION

#8272
TOP = 285.38
INV. IN = N/A 15" RCP (8194) (NO ACCESS)
INV. IN = N/A 15" RCP (8290) (NO ACCESS)
INV. IN = N/A 15" RCP (8192) (NO ACCESS)
INV. IN = N/A 15" RCP (8282) (NO ACCESS)
INV. IN = N/A 96" RCP (8097) (NO ACCESS)
INV. OUT = N/A 96" RCP (8478) (NO ACCESS)
C/L INV. = 269.65

#8282
TOP = 285.42
INV. OUT = 281.82 15" RCP (8272)

#8290
TOP = 284.71
INV. OUT = 281.76 15" RCP (8272)

#8312
TOP = 294.03
15" RCP INV. IN = 287.72 (8310)
15" RCP INV. OUT = 287.60 (8361)

#8334
TOP = 286.29
15" RCP INV. OUT = 279.05 (8334)

#8361
TOP = 291.27
15" RCP INV. IN = 283.62 (8312)
21" RCP INV. IN = 281.85 (8431)
15" INV. IN = 282.38 (24044)
21" RCP INV. OUT = 281.83 (8379)

#8369
TOP = 284.51
15" RCP INV. IN = 279.40 (8334)
15" RCP INV. OUT = 278.76 (8418)

#8379 TOP=287.73
21" RCP INV. IN = 279.20 (8361)
24" RCP INV. OUT = 279.23 (8418)

#8418
TOP = 284.66
24" RCP INV. IN = 277.35 (8379)
15" RCP INV. IN = 277.58 (8369)
24" RCP INV. OUT = 277.33 (8472)

#8431
TOP = 291.68
18" RCP INV. IN = 283.99 (8445)
121" RCP INV. OUT = 283.80 (8361)

#8445
TOP = 292.12
15" RCP INV. IN = 285.12
18" RCP INV. OUT = 284.84 (8431)

#8472
TOP = 282.05
INV. IN = 275.40 24" RCP (8418)
INV. IN = 277.07 15" RCP (6412)
INV. IN = 275.95 15" RCP (8475)
INV. IN = 276.25 15" RCP (8515)
INV. OUT = 275.27 24" RCP (8484)

#8475
TOP = 283.49
15" RCP INV. IN = 276.80 (8505)
15" RCP INV. OUT = 276.96 (8472)

#8478
TOP = 281.59
INV. IN = N/A 96" RCP (8272) (NO ACCESS)
INV. IN = N/A 30" RCP (8484) (NO ACCESS)
INV. OUT = N/A 96" RCP (8593) (NO ACCESS)

#8505
TOP = 283.12
15" RCP INV. OUT = 277.46 (8475)

STORM SEWER TABULATION

#8484
TOP = 281.69
INV. IN = 274.32 24" RCP (8472)
INV. IN = 273.93 18" RCP (8554)
INV. OUT = 273.09 30" RCP (8478)

#8515
TOP = 282.17
INV. OUT = 277.29 15" RCP (8472)

#8537
TOP = 277.78
INV. IN = 274.86 18" RCP (NORTH)
INV. IN = 274.68 15" RCP (8704)
INV. OUT = 274.36 24" RCP (8566)

#8554
TOP = 279.95
INV. IN = 276.42 21" RCP (8568)
INV. IN = 276.28 15" RCP (8554A)
INV. OUT = 276.12 18" RCP (8484)

#8554A
TOP = 279.72
INV. OUT = 276.62 15" RCP (8554)

#8566
TOP = 278.75
INV. IN = 273.70 24" RCP (8537)
INV. OUT = 273.55 33" RCP (8593)

#8568
TOP = 280.54
INV. IN = 277.48 24" RCP (8636)
INV. IN = 278.13 15" RCP (8573)
INV. OUT = 277.23 21" RCP (8564)

#8584
TOP = 279.95
INV. OUT = 274.60 15" RCP (8593)

#8593
STRUCTURE NOT FOUND.
SHOWN PER VDOT RECORDS.

#23843
TOP = 288.13
INV. OUT = 280.18 18" RCP (23844)

#23844
TOP = 287.64
INV. IN = N/A 18" RCP (23843) (NO ACCESS)
INV. IN = N/A 84" RCP (7777) (NO ACCESS)
INV. OUT = N/A 84" RCP (8055) (NO ACCESS)
C/L INV. = 274.51

#23847
TOP = 287.79
INV. OUT = 286.00 18" RCP (8076)

#24042
TOP = 283.14
INV. OUT = 276.97 15" RCP (8472)

#24043
TOP = 289.52
15: RCP INV. OUT = 283.71 (24044)

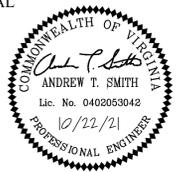
#24044
TOP = 288.78
15" RCP INV. IN = 283.00 (24043)
15" RCP INV. OUT = 282.76 (8361)



DEPARTMENT OF ENVIRONMENTAL SERVICES

Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

SEAL



APPROVALS DATE

	10/28/21
	11/05/2021
	12/23/2021
	11/05/2021
	12/23/21

REVISIONS DATE

Project Name and Location
Washington Boulevard and N. Sycamore Street
LEGEND AND SURVEY DATA
ID #107
ARLINGTON COUNTY, VIRGINIA

Designed: AS
Drawn: NM
Checked: GG
Miss Utility Transmittal #:

Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 25' VERT. N/A

Sheet
C-0001

GENERAL NOTES

GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, CONSTRUCTION STANDARDS AND SPECIFICATIONS, AND WHERE APPLICABLE THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, AND ROAD AND BRIDGE STANDARDS. THE LATEST EDITIONS OF EACH RELEVANT MANUAL SHALL BE USED.
- ALL CONSTRUCTION AND WORK ACTIVITIES SHALL COMPLY WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND ALL OTHER RELEVANT WORK SAFETY REQUIREMENTS, LATEST EDITIONS.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT OFFICER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE APPROVED PLANS.
- THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 FOR MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (i.e. WATER, SEWER, GAS, TELEPHONE, ELECTRIC, AND CABLE TV) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO IDENTIFY AND PROTECT ALL OTHER UTILITY LINES FOUND IN THE WORK SITE AREA BELONGING TO OTHER OWNERS THAT ARE NOT MEMBERS OF "MISS UTILITY". PRIVATE WATER, SEWER AND GAS LATERALS WILL NOT BE MARKED BY MISS UTILITY OR THE COUNTY. THE CONTRACTOR SHALL LOCATE AND PROTECT THESE SERVICES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND SHALL RETAIN A PROFESSIONAL LAND SURVEYOR LICENSED IN THE COMMONWEALTH OF VIRGINIA TO PROVIDE ALL NECESSARY CONSTRUCTION LAYOUTS AND ESTABLISH ALL CONTROL LINES, GRADES, AND ELEVATION DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL CUT SHEETS FOR REVIEW, PER THE SPECIFICATIONS. THE COST OF ALL NECESSARY SURVEYING SERVICES SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND, UNLESS OTHERWISE SPECIFIED, THE COST SHALL BE INCORPORATED INTO THE COSTS FOR RELEVANT ITEMS.
- THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM BEST AVAILABLE RECORDS AND SHALL BE CONSIDERED TO BE APPROXIMATE. WHEN CONSTRUCTION ACTIVITY REACHES IN PROXIMITY TO EXISTING UTILITIES, THE TRENCH(ES) SHALL BE OPENED A SUFFICIENT DISTANCE AHEAD OF THE WORK OR TEST PITS SHALL BE MADE TO VERIFY THE EXACT LOCATION AND INVERTS OF THE UTILITY TO ALLOW FOR POSSIBLE CHANGES IN THE LINE OR GRADE AS DIRECTED BY OFFICER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES AND THE RELATED STRUCTURES. ALL EXISTING UTILITY SYSTEMS SHALL BE PROTECTED TO PREVENT DAMAGE DURING THE CONTRACTOR'S OPERATIONS. ANY SYSTEM DAMAGED SHALL BE PROMPTLY REPAIRED AT NO COST TO THE OWNER.
- EXISTING MANHOLE FRAMES, COVERS, VALVE BOXES, AND OTHER APPURTENANCES SHALL BE ADJUSTED TO THE FINAL GRADE OR REPLACED, AS NECESSARY. UNLESS OTHERWISE SPECIFIED, THE COST FOR THIS SHALL BE CONSIDERED INCIDENTAL TO THE WORK, AND SHALL BE INCORPORATED INTO THE COSTS FOR RELEVANT ITEMS.
- THE CONTRACTOR SHALL PROVIDE ADA COMPLIANT ACCESS THROUGH OR AROUND THE SITE AT ALL TIMES AND SHALL ENSURE THE SAFETY OF ALL THOSE PASSING THROUGH OR ADJACENT TO THE SITE.

STORMWATER AND ENVIRONMENTAL PROTECTION

- THE CONTRACTOR SHALL CONFINE ALL ACTIVITIES AT THE SITE ASSOCIATED WITH CONSTRUCTION ACTIVITIES, TO INCLUDE STORAGE OF EQUIPMENT AND OR MATERIALS, ACCESS TO THE WORK, FORMWORK, ETC. TO WITHIN THE DESIGNATED LIMITS OF DISTURBANCE (LDD).

TREE PROTECTION

- TREES SHALL BE PROTECTED PER THE REQUIREMENTS OF ARLINGTON PARKS & RECREATION STANDARD.

TRAFFIC CONTROL

- CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO DISTURBING ANY EXISTING OR INSTALLING ANY NEW, TRAFFIC SIGNS, SIGNALS, OR OTHER TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL PREMARK THE LAYOUT OF ANY PERMANENT TRAFFIC CONTROL STRIPING, INDICATING THE PROPOSED LOCATION AND TYPE OF MARKING TO BE INSTALLED. THE PREMARKING MAY CONSIST OF TYPE D TAPE, CHALK, OR LUMBER CRAYONS. THE CONTRACTOR SHALL ALLOW 3 WORKING DAYS FOR THE INSPECTION AND APPROVAL OF THE PREMARKINGS PRIOR TO PLACING THE PERMANENT MARKINGS.
- THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS.
- THE CONTRACTOR SHALL PRESERVE ALL BUS STOPS, INCLUDING MAINTAINING ADEQUATE ACCESSIBILITY THROUGH AND ADJACENT TO THE CONSTRUCTION FOR BUSES AND THEIR PASSENGERS. THE CONTRACTOR SHALL NOT CLOSE, RELOCATE, OR OTHERWISE MODIFY A BUS STOP WITHOUT PRIOR REQUEST OF THE PROJECT OFFICER. TYPICALLY ANY RELOCATION OR CLOSURE OF A BUS STOP WILL REQUIRE AT LEAST FOUR WEEKS ADVANCE NOTICE FOR COORDINATION WITH THE COUNTY'S BUS STOP COORDINATOR - 703-228-3049
- WHEN CONDITIONS WARRANT DUE TO TRAFFIC VOLUMES, PATTERNS, OR SPECIAL EVENTS, THE COUNTY MAY SUSPEND OR OTHERWISE DIRECT THE CONTRACTOR'S ACTIVITIES TO PROTECT THE PUBLIC AND OR THE COUNTY'S TRANSPORTATION NETWORK.

WATER DISTRIBUTION, STORM, AND SANITARY SEWER SYSTEMS

- UNLESS OTHERWISE DIRECTED, CONTRACTORS ARE EXPRESSLY PROHIBITED FROM OPERATING ANY WATER VALVES OR APPURTENANCES. CONTRACTORS SHALL SUBMIT ALL REQUESTS FOR VALVE OPERATIONS TO THE PROJECT OFFICER AT LEAST 3 WORKING DAYS IN ADVANCE OF THE REQUIRED OPERATION.
- IN THE EVENT OF A WATER OR SEWER EMERGENCY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY'S WATER CONTROL CENTER AT 703-228-5555 AND THE PROJECT OFFICER.

MAPPING

- EXISTING CONDITIONS MAPPING PROVIDED BY ARLINGTON COUNTY. BASIS FOR MAPPING IS FIELD SURVEY AND AS-BUILT INFORMATION.

GENERAL REQUIREMENTS

- THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS AND LICENSES AND KEEP COPIES OF THE SAME ON SITE DURING CONSTRUCTION, EXCEPT AS PROVIDED BY ARLINGTON COUNTY.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK SITE, FREE FROM TRASH AND DEBRIS.
- THE CONTRACTOR SHALL KEEP AND MAINTAIN A SET OF APPROVED PROJECT PLANS AND SPECIFICATIONS ON SITE AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WITH MATCHING MATERIALS ANY PAVEMENT, PAVEMENT MARKINGS, ETC. THAT MUST BE CUT OR REMOVED, OR THAT ARE DAMAGED DURING CONSTRUCTION.

COORDINATION

- CONSTRUCTION WILL TAKE PLACE ADJACENT TO ONGOING TRAFFIC OPERATIONS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ARLINGTON COUNTY (AC).
- THE CONTRACTOR SHALL SUBMIT A SCHEDULE FOR CONSTRUCTION TO AC IN ACCORDANCE WITH ARLINGTON COUNTY D.E.S. REQUIREMENTS.
- PER THE CONTRACT DOCUMENTS, PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE A MEETING WITH AC TO DISCUSS COORDINATION OF CONSTRUCTION ACTIVITIES AND RELATED PROJECTS. THE CONTRACTOR SHALL PARTICIPATE IN A CONTRACTOR LED BIWEEKLY PROGRESS MEETINGS WITH THE COUNTY AND SHALL SUBMIT SCHEDULE UPDATES AT THESE MEETINGS.

CLEARING AND GRUBBING/DEMOLITION

- THE CONTRACTOR SHALL PERFORM DEMOLITION ACTIVITIES AS NOTED AND SHOWN ON THESE PLANS AND AS DIRECTED BY ARLINGTON COUNTY (AC).
- INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AND TREE PROTECTION PRIOR TO BEGINNING DEMOLITION WORK.
- DEMOLITION DETAILS AND NOTES ARE INTENDED TO DEPICT GENERAL DEMOLITION AND UTILITY WORK AND ARE NOT INTENDED TO IDENTIFY EACH ELEMENT OF DEMOLITION OR RELOCATION. CONTRACTOR SHALL COORDINATE WITH AC AND APPROPRIATE UTILITY COMPANIES PRIOR TO WORK.
- THE CONTRACTOR SHALL REMOVE OR ABANDON, AS SPECIFIED, EXISTING UTILITIES SUCH AS STORM DRAINAGE, SANITARY SEWER, WATER, GAS, ELECTRIC, AND TELEPHONE OR AS DIRECTED BY AC. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING EACH UTILITY COMPANY AND AC TO COORDINATE ABANDONMENT OR REMOVAL OF ALL UTILITIES AND FOR DETERMINING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES PRIOR TO COMMENCING WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
- ALL MATERIALS REMOVED UNDER CLEARING WORK, NOT TO BE RELOCATED OR TO BE TURNED OVER TO THE OWNER, SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID UNNECESSARY DAMAGE TO EXISTING ROAD SURFACES.
- ALL EXISTING ITEMS TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR.

UTILITIES

- THIS PLAN DOES NOT GUARANTEE THE EXISTENCE, NONEXISTENCE, SIZE, TYPE, LOCATION, ALIGNMENT, OR DEPTH OF ANY UNDERGROUND UTILITIES OR OTHER FACILITIES. WHERE SURFACE FEATURES (MANHOLES, CATCH BASINS, VALVES, ETC.) ARE UNAVAILABLE OR INCONCLUSIVE, INFORMATION SHOWN MAY BE FROM UTILITY OWNER'S RECORDS AND/OR ELECTRONIC LINE TRACING, THE RELIABILITY OF WHICH IS UNCERTAIN. THE CONTRACTOR SHALL PERFORM TEST EXCAVATIONS OR OTHER REINVESTIGATIONS AS NECESSARY TO VERIFY LOCATION AND CLEARANCES.
- UNLESS OTHERWISE NOTED, UTILITIES LIDS, INCLUDING WATER VALVE LIDS, ARE TO BE ADJUSTED BY THE CONTRACTOR TO MATCH FINAL GRADE AND SLOPE.
- STATE LAW MANDATES THE NOTIFICATION OF UTILITY OWNERS 48 HOURS IN ADVANCE OF EXCAVATION. FOR LOCATION OF UTILITIES CALL:

UTILITY OWNERS	TELEPHONE
DOMINION VIRGINIA POWER (DVP)	888-667-3000
VERIZON COMMUNICATIONS	888-826-2355
COMCAST	888-683-1000
JONES FIBER	540-891-5545
WASHINGTON GAS	703-750-1000
- CONTRACTOR SHALL CONFORM TO THE OVERHEAD HIGH VOLTAGE LINE SAFETY ACT (EFFECTIVE JULY 1, 2003) AND SHALL CONTACT THE NECESSARY AUTHORITIES PRIOR TO START OF CONSTRUCTION.
- ARLINGTON COUNTY'S UTILITY DEPARTMENT INSPECTOR SHALL BE NOTIFIED WHEN ANY IMPROVEMENT PERTINENT TO HIS INSPECTION DUTIES ARE BEING INSTALLED. SPECIFIC REQUIREMENTS ARE:
 - SITE INSPECTOR OR AREA SUPERVISOR IS TO BE NOTIFIED AT LEAST 3 DAYS PRIOR TO START OF CONSTRUCTION.
 - A MINIMUM OF 24 HOURS NOTICE IS REQUIRED WHEN REQUESTING COMPACTION TESTS.
- STABLE SUBGRADE SHALL COMPRISE SOLID, WELL DRAINED, UNDISTURBED EARTH CAPABLE OF SUPPORTING STREET LOADING WITHOUT RESULTING IN ANY DAMAGING SETTLEMENT AS DETERMINED BY THE ENGINEER.
- WHERE UNSUITABLE SUBGRADE, AS DETERMINED BY THE ENGINEER, IS ENCOUNTERED, IT SHALL BE MADE STABLE BY DRAINING, COMPACTING, AND/OR REPLACING AS REQUIRED, TO THE SATISFACTION OF THE ENGINEER.
- ALL CONCRETE SHALL BE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) CLASS A4 FOR PRECAST STRUCTURES AND VDOT CLASS A3 FOR ALL OTHERS USES, UNLESS OTHERWISE SPECIFIED.
- ALL ASPHALT PAVEMENT COURSES SHALL BE IN CONFORMANCE WITH VDOT SPECIFICATIONS.
- EXISTING FIRE HYDRANTS MUST REMAIN ACTIVE UNTIL NEW HYDRANTS ARE AVAILABLE FOR PUBLIC USE. CONTRACTOR TO COORDINATE WITH PROPERTY OWNERS AND FIRE DEPARTMENT WHEN SERVICES TO PROPERTIES ARE INTERRUPTED.

DRAINAGE

- THE LOCATIONS OF ALL DRAINAGE STRUCTURES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY, WITH THE EXCEPTION OF STRUCTURES SHOWING SPECIFIC STATIONS. THE HEIGHT (H") DIMENSIONS SHOWN ON THE PLANS FOR DROP INLETS AND JUNCTION BOXES AND THE LINEAR FOOT (LF) DIMENSIONS SHOWN FOR MANHOLES ARE APPROXIMATE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY DRAINAGE STRUCTURES AND CONVEYANCE MEASURES TO PREVENT DAMAGE TO PRIVATE PROPERTY AND PUBLIC STREETS, OR AS DIRECTED BY ARLINGTON COUNTY.
- IF PRECAST DRAINAGE STRUCTURES ARE USED, SHOP DRAWINGS MUST BE SUBMITTED.
- ALL PROPOSED STORM DRAINAGE STRUCTURES SHALL UTILIZE INLET SHAPING WITH PAVED INVERTS, UNLESS OTHERWISE NOTED ON THE PLANS, FOR EACH STRUCTURE.
- ALL PIPE CULVERTS (WATER, SEWER, AND STORM SEWER), LOCATED WITHIN RIGHT-OF-WAY EXCAVATION AREAS THAT ARE SUBJECT TO TRAFFIC LOADS SHALL BE BACKFILLED WITH A SELECT OR GRANULAR MATERIAL AND PLACED IN SIX (6) INCH LAYERS AND COMPACTED TO 95 PERCENT THEORETICAL AASHTO DENSITY IN ACCORDANCE WITH SECTION 302.03 OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS (CURRENT EDITION).
- RIPRAP MUST BE PROVIDED AT ALL ENDWALLS AND FLARED END SECTIONS AS REQUIRED BY ARLINGTON COUNTY INSPECTOR.
- THE CONTRACTOR SHALL MAINTAIN ALL DRAINAGE, STORMWATER MANAGEMENT, AND BEST MANAGEMENT PRACTICES FACILITIES AND SYSTEMS TO ENSURE THAT THEY FUNCTION PROPERLY DURING CONSTRUCTION.
- A WATERTIGHT CONNECTION SHALL BE MADE AT ALL PIPES ENTERING DRAINAGE STRUCTURES. IN ADDITION, WATERTIGHT CONNECTIONS SHALL BE MADE BETWEEN EACH SECTIONS OF PIPE.
- LENGTHS OF PIPE SHOWN ON THE DRAWINGS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- TOP OF STRUCTURES SHALL BE SET TO MATCH CURB AND GUTTER, SIDEWALK AND/OR DITCH CONSTRUCTION.
- ENGINEER MAY APPROVE A MODIFICATION TO DESIGN TO FACILITATE PROPER DRAINAGE. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.

CONSTRUCTION

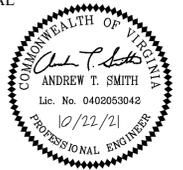
- SUBMITTALS ON MATERIALS FOR THIS PROJECT SHALL BE PROVIDED TO AC FOR APPROVAL PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- EXISTING VEGETATION SURROUNDING THE CONSTRUCTION AREA SHALL REMAIN IN A NATURAL STATE. TREES NEAR THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH TREE PROTECTION DETAILS, PLANS, AND NOTES AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.
- THE CONTRACTOR SHALL STRIP TOPSOIL AND ANY ORGANIC LADEN SOIL AND STORE FOR USE IN BACKFILLING AND LANDSCAPING FOR SITE RESTORATION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY EXCESS SOIL AFTER RESTORATION OF THE SITE.
- WHEN MATERIALS WHICH ARE UNSUITABLE FOR FOUNDATIONS, SUBGRADES, OR ROADWAY PURPOSES OCCUR WITHIN THE LIMITS OF CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE SUCH MATERIAL BELOW THE GRADE SHOWN ON THE PLANS. THE AREAS SO EXCAVATED SHALL BE BACKFILLED WITH APPROVED SUITABLE SELECT FILL MATERIAL.
- ANY NECESSARY FILL UNDER PAVED AREAS SHALL BE PLACED IN 6-INCH LIFTS. ALL FILL SHALL BE COMPACTED 95% MDD STANDARD PROCTOR. SUBGRADE SHALL BE PROOF-ROLLED PER THE DIRECTION OF AC. AREAS THAT RUT SHALL BE UNDERCUT AND REPLACED WITH CONTROLLED FILL.
- ALL UNPAVED SURFACES SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM PAVED AREAS AND TOWARD DRAINAGE STRUCTURES.
- FOLLOWING FINAL COMPLETION, ALL DISTURBED GRASS AREAS SHALL BE PREPARED AND SODDED.
- DISTURBED GRASS AREAS WITHIN THE PROJECT LIMITS THAT WILL REMAIN INACTIVE FOR A PERIOD OF 7 CALENDAR DAYS OR LONGER SHALL BE TEMPORARILY STABILIZED WITH SEED AND STRAW, MULCH, OR OTHER ACCEPTABLE GROUNDCOVER.
- THE CONTRACTOR IS REQUIRED TO NOTIFY AC THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION AND SPECIFICALLY REQUEST INSPECTION BEFORE BEGINNING ANY OF THE FOLLOWING ACTIVITIES:
 - INSTALLATION OF SILTATION AND EROSION CONTROL MEASURES
 - CLEARING AND GRUBBING
 - EARTHWORK
 - BACKFILL OF ANY STORM DRAINAGE PIPE, CULVERTS, INLET, AND OTHER UTILITIES
 - INSTALLATION OF ANY UNDERGROUND UTILITY, INCLUDING STORM PIPES, CULVERT, INLETS, DUCT BANKS, MANHOLE, ETC.
 - PLACING SUBBASE, BASE OR PAVING SURFACE
 - INSTALLATION OF ANY FORMS
 - PLACING OF ANY CONCRETE
 - BACKFILL OF ANY FOUNDATIONS OR WALLS
 - INSTALLATION OF LANDSCAPING
 - INSTALLATION MARKINGS OF LIGHTING
 - STRIPING AND APPLICATION OF PAVEMENT MARKINGS
 - ALTERATIONS TO BUS STOPS STRUCTURES AND SIGNAGE
- CONTRACTOR TO MAINTAIN ALL PUBLIC AND PRIVATE ACCESS AT ALL TIMES.
- CONTRACTOR TO MATCH ALL EXISTING STEPS, SIDEWALKS, RAMPS, ETC. IN ORDER TO MAINTAIN SAFE PEDESTRIAN AND ADA ACCESS.



DEPARTMENT OF ENVIRONMENTAL SERVICES

Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

SEAL



APPROVALS DATE

APPROVALS	DATE
<i>James Kettle</i> TRAFFIC SIGNAL ENGINEER	10/28/21
<i>John Nicks</i> TRAFFIC ENGINEERING MANAGER	11/05/2021
<i>Julia</i> WATER, SEWER, STREETS BUREAU CHIEF	12.23.2021
<i>John</i> TEARO BUREAU CHIEF	11/05/2021
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	12/23/21

REVISIONS DATE

REVISIONS	DATE

Project Name and Location
Washington Boulevard and N. Sycamore Street
GENERAL NOTES AND DETAILS
ID #107
ARLINGTON COUNTY, VIRGINIA

Designed: AS
Drawn: NM
Checked: GG
Miss Utility Transmittal #:

Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 25' VERT. N/A

Sheet
C-0002

EROSION AND SEDIMENT CONTROL

- 1. TEMPORARY SILT FENCE SHALL BE CONSTRUCTED FOR SHEET RUNOFF AS SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
2. WHEN WIRE SUPPORT IS USED, STANDARD STRENGTH FILTER CLOTH MAY BE USED. POSTS FOR THIS TYPE OF INSTALLATION SHALL BE PLACED A MAXIMUM OF 10 FEET APART. THE WIRE MESH FENCE MUST BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST ONE INCH LONG, THE WIRES OR HOG RINGS, THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF TWO INCHES AND SHALL NOT EXTEND MORE THAN 34 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
3. WHEN WIRE SUPPORT IS NOT USED, EXTRA STRENGTH FILTER CLOTH SHALL BE USED. POSTS FOR THIS TYPE OF FABRIC SHALL BE PLACED A MAXIMUM OF 6 FEET APART. THE FILTER FABRIC SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING ONE INCH LONG (MINIMUM) HEAVY DUTY WIRE STAPLES OR TIE WIRES AND EIGHT INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH.
4. WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF 6 INCHES. POSTS SHALL BE EITHER STEEL POSTS OR WOODEN STAKES AND HAVE A MINIMUM LENGTH OF 5 FEET.
5. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS NOTED IN TABLE 3.05-B OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION. THE SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF SIX MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0° TO 120°F.
6. SILT FENCES SHALL BE INSPECTED AND CLEANED ON A WEEKLY BASIS AND ON A DAILY BASIS IMMEDIATELY FOLLOWING EACH RAIN STORM. ALL NECESSARY REPAIRS SHOULD BE MADE IMMEDIATELY.
14. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION (1992) AND VIRGINIA REGULATIONS 4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.
15. THE TEMPORARY EROSION AND SILTATION (E&S) CONTROL ITEMS SHOWN ON THE E&S CONTROL PLAN ARE INTENDED TO PROVIDE A GENERAL PLAN FOR CONTROLLING EROSION AND SILTATION WITHIN THE PROJECT LIMITS. THE E&S CONTROL PLAN IS BASED ON FIELD CONDITIONS AT THE TIME OF PLAN DEVELOPMENT AND AN ASSUMED SEQUENCE OF CONSTRUCTION. THE CONTRACTOR, IN CONJUNCTION WITH THE AC PROJECT MANAGER AND/OR RLD, SHALL ADJUST THE LOCATION, QUANTITY AND TYPE OF EROSION AND SILTATION CONTROL ITEMS REQUIRED BASED ON THE ACTUAL FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION AND THE SELECTED SEQUENCE OF CONSTRUCTION.
16. THE AREAS BEYOND THE PROJECT'S CONSTRUCTION AREA ARE TO BE PROTECTED FROM SILTATION. PERIMETER CONTROLS SUCH AS FILTER BARRIER, SILT FENCE, ETC. SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION OPERATIONS.
17. SILT REMOVAL AND SEDIMENT CLEAN-OUT FROM EROSION AND SILTATION CONTROL ITEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING:
A. TEMPORARY SEDIMENT BASINS AND SEDIMENT TRAPS - WHEN THE "WET" STORAGE VOLUME (PERMANENT POOL) HAS BEEN REDUCED BY 50%.
B. DEWATERING BASINS - WHEN THE EXCAVATED VOLUME HAS BEEN REDUCED BY 50%.
C. ALL OTHER EROSION AND SILTATION CONTROL ITEMS - WHEN THE CAPACITY, HEIGHT, OR DEPTH HAS BEEN REDUCED BY 50%.
18. EXCEPT WHERE NOTED HEREON, TO THE BEST OF THE DESIGNER'S KNOWLEDGE, THE PROPOSED DEVELOPMENT OF THE SUBJECT PROPERTY CONFORMS TO ALL CURRENT APPLICABLE LAND DEVELOPMENT ORDINANCES, REGULATIONS, AND ADOPTED STANDARDS.
19. LAND CONSERVATION NOTES - MEASURES TO CONTROL EROSION AND SILTATION SHALL BE PROVIDED PURSUANT TO AND IN COMPLIANCE WITH CURRENT STATE AND LOCAL REGULATIONS. HOWEVER, THE APPROVAL OF THESE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR OR HIS AGENT OF ANY LEGAL RESPONSIBILITIES WHICH MAY BE REQUIRED BY THE CODE OF VIRGINIA OR ANY ORDINANCE ENACTED BY ARLINGTON COUNTY.
20. ADDITIONAL SILTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED AS DIRECTED BY ARLINGTON COUNTY INSPECTOR DURING FIELD REVIEW; COSTS ASSOCIATED WITH ADDITIONAL MEASURES SHALL BE ASSUMED BY THE CONTRACTOR.
21. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION.
22. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
23. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
24. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
25. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
26. EROSION CONTROL MEASURES ARE TO BE REMOVED BY CONTRACTOR AFTER PERMANENT VEGETATION HAS BEEN ESTABLISHED.
27. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.
C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED (EXAMPLE WOULD BE A SILT BAG) OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE (EXAMPLE WOULD BE A SEDIMENT TRAP) OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH STANDARDS 3.31 AND 3.32.
F. ALL TRENCHING SHALL BE IN ACCORDANCE WITH APPLICABLE SAFETY STANDARDS.

MINIMUM STANDARDS REVIEW

- MS-1 TEMPORARY AND PERMANENT STABILIZATION HAS BEEN ADDRESSED.
MS-2 THERE ARE NO STOCKPILES PROPOSED WITH THIS PLAN.
MS-3 MAINTENANCE OF PERMANENT STABILIZATION HAS BEEN ADDRESSED, SEE PERMANENT STABILIZATION.
MS-4 SEDIMENT TRAPPING FACILITIES ARE TO BE INSTALLED AS THE FIRST STEP IN LAND DISTURBING ACTIVITIES. MAINTENANCE OF FACILITIES ARE DETAILED UNDER THE EROSION AND SEDIMENT CONTROL NOTES.
MS-5 THERE ARE NO EARTHEN STRUCTURE PROPOSED WITH THIS PROJECT.
MS-6 THERE ARE NO SEDIMENT BASINS PROPOSED WITH THIS PROJECT.
MS-7 THERE ARE NO CUT AND FILL SLOPES PROPOSED WITH THIS PROJECT.
MS-8 THERE ARE NO PAVED FLUMES, CHANNELS, OR SLOPE DRAINS PROPOSED WITH THIS PROJECT.
MS-9 THERE ARE NO WATER SEEPS ANTICIPATED WITH THIS PROJECT.
MS-10 INLET PROTECTION IS PROVIDED ON INLETS DOWN GRADIENT FROM DISTURBED AREAS.
MS-11 ADEQUATE OUTLET PROTECTION EXIST AT ALL EXISTING OUTLETS. THERE ARE NO NEW OUTLETS PROPOSED.
MS-12 THERE ARE NO IN-STREAM CONSTRUCTION MEASURES PROPOSED WITH THIS PROJECT.
MS-13 THERE ARE NO STREAM CROSSINGS PROPOSED WITH THIS PROJECT.
MS-14 THERE ARE NO WATERCOURSES BEING GROSSED WITH THIS PROJECT.
MS-15 THERE ARE NO IMPACTS TO WATERCOURSES PROPOSED WITH THIS PROJECT.
MS-16 UTILITY TRENCHING HAS BEEN ADDRESSED IN THE EROSION AND SEDIMENT CONTROL NOTES.
MS-17 PREVENTING SOIL FROM BEING TRACKED ON THE STREETS IS ADDRESSED IN THE EROSION AND SEDIMENT CONTROL NOTES.
MS-18 THE REMOVAL OF TEMPORARY PRACTICES HAS BEEN ADDRESSED IN THE EROSION AND SEDIMENT CONTROL NOTES.
MS-19 THIS PROJECT DOES NOT SIGNIFICANTLY INCREASE THE IMPERVIOUS AREA OR THE RUNOFF FROM THE SITE AREA.

MS4 NOTES

- 1. ONLY THE FOLLOWING NON-STORMWATER DISCHARGES ARE AUTHORIZED BY ARLINGTON COUNTY'S MS4 PERMIT, UNLESS THE STATE WATER CONTROL BOARD, THE VIRGINIA SOIL AND WATER CONSERVATION BOARD (BOARD), OR ARLINGTON COUNTY DETERMINES THE DISCHARGE TO BE A SIGNIFICANT SOURCE OF POLLUTANTS TO SURFACE WATERS: WATER LINE FLUSHING; LANDSCAPE IRRIGATION; DIVERTED STREAM FLOWS; RISING GROUND WATERS; UNCONTAMINATED GROUND WATER INFILTRATION (AS DEFINED AT 40 CFR 35.2005(20)); UNCONTAMINATED PUMPED GROUND WATER; DISCHARGES FROM POTABLE WATER SOURCES; AIR CONDITIONING CONDENSATION; IRRIGATION WATER; SPRINGS; WATER FROM CRAWL SPACE PUMPS; FOOTING DRAINS; LAWN WATERING; INDIVIDUAL RESIDENTIAL CAR WASHING; FLOWS FROM RIPARIAN HABITATS AND WETLANDS; DECHLORINATED SWIMMING POOL DISCHARGES; DISCHARGES OR FLOWS FROM FIRE FIGHTING; AND, OTHER ACTIVITIES GENERATING DISCHARGES IDENTIFIED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY AS NOT REQUIRING VPDES AUTHORIZATION.
2. APPROPRIATE CONTROLS MUST BE IMPLEMENTED TO PREVENT ANY NON-STORMWATER DISCHARGES NOT INCLUDED ON THE ABOVE LIST (E.G., CONCRETE WASH WATER, PAINT WASH WATER, VEHICLE WASH WATER, DETERGENT WASH WATER, ETC.) FROM BEING DISCHARGED INTO ARLINGTON COUNTY'S MS4 SYSTEM, WHICH INCLUDES THE CURB AND GUTTER SYSTEM, AS WELL AS CATCH BASINS AND OTHER STORM DRAIN INLETS, OR STREAM NETWORK.
3. PER CHAPTER 26 OF THE ARLINGTON COUNTY CODE, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DISCHARGE DIRECTLY OR INDIRECTLY INTO THE STORM SEWER SYSTEM OR STATE WATER, ANY SUBSTANCE LIKELY, IN THE OPINION OF THE COUNTY MANAGER, TO HAVE AN ADVERSE EFFECT ON THE STORM SEWER SYSTEM OR STATE WATERS.

GENERAL LAND CONSERVATION NOTES

- 1. NO DISTURBED AREA WILL REMAIN DENUDED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR OR HIS AGENT.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.
3. ALL STORM AND SANITARY SEWER LINES NOT IN STREETS ARE TO BE MULCHED AND SEEDED WITHIN 5 DAYS AFTER BACKFILL. NO MORE THAN 500 FEET ARE TO BE OPEN AT ANY ONE TIME.
4. ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE COMPACTED, SEEDED AND MULCHED WITHIN 5 DAYS OF BACKFILL.
5. ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS ARE TO BE MULCHED AND SEEDED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCKPILES.
6. DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION DEVICES, MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
7. ANY DISTURBED AREA NOT COVERED BY NOTE # 1 ABOVE, AND NOT PAVED, SODDED OR BUILT UPON BY NOVEMBER 1ST, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED WITH HAY OR STRAW AT THE RATE OF 2 TONS PER ACRE AND OVER-SEEDED NO LATER THAN MAY 15TH.
8. AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED. ARLINGTON COUNTY INSPECTOR TO APPROVE REMOVAL OF ALL TEMPORARY SILTATION MEASURES.

EROSION CONTROL NARRATIVE

PROJECT DESCRIPTION: THIS PROJECT RECONSTRUCTS THE TRAFFIC SIGNAL AT THE INTERSECTION OF WASHINGTON BOULEVARD AT N. SYCAMORE STREET. THIS PROJECT ALSO INCLUDES SIDEWALK AND CURB AND GUTTER MODIFICATIONS. ALL CONSTRUCTION WORK WILL BE FOR THE DURATION OF 110 TOTAL CALENDAR (80 WORK DAYS). WORK DAYS NOT TO INCLUDE ARLINGTON COUNTY PUBLIC HOLIDAYS. APPROXIMATELY 2,948 SF (0.067 AC) OF LAND WILL BE DISTURBED WITH THIS PROJECT.

EXISTING CONDITIONS: WASHINGTON BOULEVARD IS A TWO-LANE ROAD EAST OF N. SYCAMORE STREET AND IS A FOUR-LANE ROAD WEST OF N. SYCAMORE STREET. OVERHEAD UTILITIES ARE LOCATED ALONG THE NORTHERN SIDE OF THE ROAD WITHIN IN THE VICINITY OF N. SYCAMORE STREET. THE RIGHT OF WAY INCLUDES TREES, STORM DRAINAGE STRUCTURES AND PIPES, SANITARY SEWER MAINS, WATER MAINS, ELECTRIC LINES, COMMUNICATIONS LINES AND MASS TRANSIT STOP LOCATIONS. MINIMAL CHANGES TO THE EXISTING TOPOGRAPHY ARE PROPOSED. MOST OF THE EXISTING VEGETATION WITHIN THE PROJECT LIMITS SHALL BE REPLACED.

ADJACENT AREAS: AT N. SYCAMORE STREET, WASHINGTON BOULEVARD IS BOUND ON BOTH SIDES BY RESIDENTIAL DEVELOPMENTS OF VARIABLE DENSITY AND WMATA PROPERTY. THE CONTRACTOR SHALL PROVIDE TO THE ARLINGTON COUNTY INSPECTOR PHOTOGRAPHS OF IMMEDIATE ADJACENT AREAS TO DOCUMENT ADJACENT OFFSITE CONDITIONS PRIOR TO INSTALLING PERIMETER EROSION CONTROLS.

OFF-SITE AREAS: THERE ARE NO OFF-SITE AREAS OR STOCKPILES ASSOCIATED WITH THIS PROJECT. OFFSITE AREAS DAMAGED BY THE CONTRACTOR OR ITS LACK OF EROSION CONTROLS SHALL BE REPAIRED BY THE CONTRACTOR, AT ITS EXPENSE, IN A TIMELY MANNER.

SOILS: THE SOILS IN THE PROJECT AREA HAVE BEEN MAPPED AS URBAN LAND-SASSAFRAS-NEABSCO COMPLEX, URBAN LAND-GLENELG COMPLEX, AND URBAN LAND-UDORTHENTS COMPLEX.

CRITICAL AREAS: THERE ARE NO CRITICAL AREAS ASSOCIATED WITH THIS PROJECT. DISTURBANCE SHALL BE LIMITED TO SMALL AREAS AND THE CONTRACTOR SHALL PROTECT THOSE AREAS AS TO NOT CAUSE OR ALLOW FOR EROSION OF SOILS OUT OF THE PROJECT AREA.

EROSION AND SEDIMENT CONTROL MEASURES: THE FOLLOWING EROSION CONTROLS SHALL BE USED DURING THIS PROJECT:
1. STD. 3.05 SILT FENCE - SILT FENCE AND SUPER SILT FENCE SHALL BE USED IN ACCORDANCE WITH THIS STANDARD AND AS SPECIFIED BY ARLINGTON COUNTY. SEE DETAIL THIS SHEET. SILT FENCE OR SUPER SILT FENCE SHALL BE USED DOWN GRADIENT FROM DISTURBED AREAS AS SHOWN ON THE PLANS AND AS NEEDED TO PREVENT THE TRANSPORTATION OF SEDIMENT BEYOND THE PROJECT LIMITS. IT SHALL BE INSTALLED PRIOR TO STARTING LAND DISTURBANCE AND SHALL BE REMOVED AFTER THE DISTURBED AREA HAS HAD TEMPORARY OR PERMANENT STABILIZATION ESTABLISHED. COORDINATE REMOVAL WITH THE ARLINGTON COUNTY INSPECTOR.
2. STD. 3.07 STORM DRAIN INLET PROTECTION - STORM DRAINAGE INLETS SHALL BE PROTECTED IN ACCORDANCE WITH THIS STANDARD. INLETS DOWN GRADIENT FROM LAND DISTURBING ACTIVITIES SHALL HAVE INLET PROTECTION INSTALLED PRIOR TO STARTING LAND DISTURBANCE. CARE SHALL BE TAKEN AS TO NOT INTERFERE WITH TRAFFIC ON ROADWAY WHEN SELECTING THE TYPE OF INLET PROTECTION TO BE USED. THE CONTRACTOR IS TO REMOVE SILT BUILDUP PROMPTLY SO THAT SILT IS NOT TRACKED ALONG THE ROAD. REMOVAL OF THE INLET PROTECTION SHALL OCCUR ONCE DISTURBED AREA UP GRADIENT OF THE INLET HAVE BEEN STABILIZED AND IN COORDINATION WITH THE ARLINGTON COUNTY INSPECTOR.
3. STD. 3.26 DEWATERING STRUCTURE - ALL DISCHARGES FROM DEWATERING OPERATIONS SHALL BE IN ACCORDANCE WITH THIS STANDARD. DEWATERING CONTROLS SHALL BE USED AT ALL DEWATERING DISCHARGES. THE CONTRACTOR IS TO NOTIFY THE ARLINGTON COUNTY INSPECTOR PRIOR TO DISCHARGING DEWATERING EFFLUENT OF THE LOCATION AND TYPE OF FILTER OR CONTROL THAT IS TO BE USED AND FOR HOW LONG IT WILL BE USED.
4. STD. 3.31 TEMPORARY SEEDING - TEMPORARY SEEDING SHALL BE APPLIED IN ACCORDANCE WITH THIS STANDARD. TEMPORARY STABILIZATION IS REQUIRED WHEN AN AREA IS NOT TO BE WORKED WITHIN A 7 DAY PERIOD. THE CONTRACTOR SHALL STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE IN ORDER TO ESTABLISH A SURFACE PROTECTION TO EROSION. TEMPORARY SEEDING SHALL BE CARED FOR AS NECESSARY IN ORDER TO GENERATE A DENSE, HEALTHY STAND OF VEGETATION THAT WILL RESIST EROSION.
5. THE CONTRACTOR SHALL USE APPROPRIATE METHODS TO ESTABLISH PERMANENT STABILIZATION THAT ARE SIMILAR TO THE CONDITION THAT WAS PRESENT PRIOR TO STARTING LAND DISTURBANCE ACTIVITIES.
6. STD. 3.33 SODDING - ALL SODDING SHALL BE IN ACCORDANCE WITH THIS STANDARD. SODDED AREAS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL THE SOD HAS BEEN ESTABLISHED AND HAD TWO MOWING CYCLES. THE CONTRACTOR SHALL COORDINATE THE RELEASE OF MAINTENANCE OF SODDED AREAS WITH THE ARLINGTON COUNTY INSPECTOR AND THE LAND OWNER.
7. STD. 3.38 TREE PRESERVATION AND PROTECTION - TREE PROTECTION FENCING SHALL BE IN ACCORDANCE WITH THIS STANDARD AND ARLINGTON COUNTY'S TREE PROTECTION FENCE, PLAN. SEE THIS SHEET FOR DETAIL. TREE PROTECTION SHALL BE USED ALONG THE LIMITS OF DISTURBANCE WHERE AN OFFSITE TREE OR LANDSCAPED AREA MAY HAVE A CRITICAL ROOT ZONE THAT EXTENDS INTO THE LIMITS OF THIS PROJECT. THE ARLINGTON COUNTY URBAN FORESTER MAY REQUIRE ADDITIONAL TREE PRESERVATION AND PROTECTION BE INSTALLED PRIOR TO STARTING LAND DISTURBING ACTIVITIES. TREE PRESERVATION AND PROTECTION SHALL ONLY BE REMOVED WITH THE APPROVAL OF THE ARLINGTON COUNTY URBAN FORESTER.

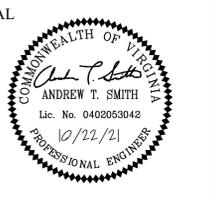
PERMANENT STABILIZATION: ALL DISTURBED AREAS BY THIS PROJECT SHALL BE STABILIZED WITH PERMANENT GROUND COVER UTILIZING STD. 3.33. PERMANENT SODDING SHALL BE UTILIZED IN DISTURBED AREAS ADJACENT TO CURB RAMP MODIFICATIONS. SEEDING SHALL BE UTILIZED IN ALL OTHER DISTURBED AREAS WITHIN RIGHT-OF-WAY. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF ALL DISTURBED AREAS UNTIL FINAL ACCEPTANCE BY ARLINGTON COUNTY AND/OR LAND OWNER. THIS SHALL INCLUDE CUTTING THE GRASS TO MAINTAIN THE SAME APPEARANCE AS THE ADJOINING PROPERTY. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF ACHIEVING FINAL STABILIZATION OR WHEN THE MEASURES ARE NO LONGER NEEDED.

CALCULATIONS: DETAILED CALCULATIONS SHOWING PRE AND POST DEVELOPMENT DRAINAGE AREAS, INLET COMPUTATIONS, PIPE CAPACITIES AND FLOWS ARE INCLUDED IN THIS SET OF PLANS IN ADDITION TO THE DRAINAGE AND STORMWATER MANAGEMENT REPORT / ANALYSIS.



DEPARTMENT OF ENVIRONMENTAL SERVICES

Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606



APPROVALS

Table with columns for Name, Title, and Date. Includes signatures for Traffic Signal Engineer, Traffic Engineering Manager, Water, Sewer, Streets Bureau Chief, and Transportation Director.

REVISIONS

Table with columns for Revision Number and Date.

Washington Boulevard and N. Sycamore Street
GENERAL NOTES AND DETAILS
ID #107
ARLINGTON COUNTY, VIRGINIA

Designed: AS
Drawn: NM
Checked: GG
Miss Utility Transmittal #:

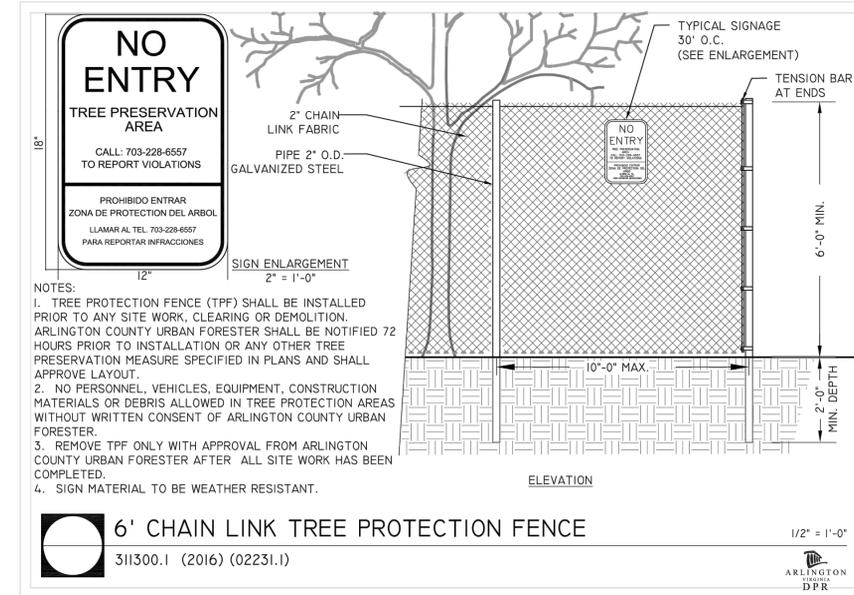
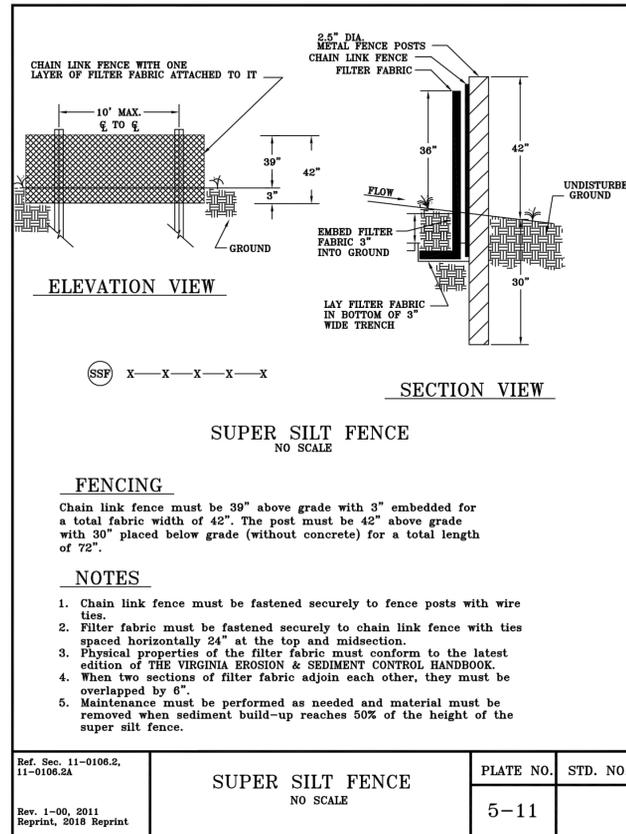
Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 25' VERT. N/A

Sheet C-0003

GENERAL DETAILS

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



05/26/2021
date

Qianqian Li, P.E.
ESC Program Administrator
Department of Environmental Services
2100 Clarendon Boulevard, Suite 813
Arlington, Virginia 22201

Re: Erosion and Sediment Control Permit Application for:
Washington Boulevard and North Sycamore Street
street address

lot, block, section subdivision
LDA-16725
permit number

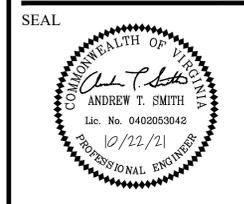
Dear Mrs. Li:

I hereby certify that I accept the responsibilities of Responsible Land Disturber for the above referenced project. I understand that these responsibilities include:

- Reviewing the erosion and sedimentation (E&S) plan for the project.
- Walking the site prior to construction to identify critical areas.
- Conducting a pre-construction briefing with earth moving and site contractors to present the E&S plan and highlight the presence of critical areas, the limits of clearing and the required E&S controls and tree protection measures to be installed. Call 703-228-0760 to schedule pre-construction meeting.
- Regularly inspecting the site during construction to ensure that all E&S controls are functioning and are adequate to address erosion and sedimentation. Inspect the site 48 hours after a runoff-generating storm, and provide a copy of the inspection findings to the county.
- Reporting to the owner the presence inadequate or non functioning E&S controls when they are observed.
- Ensuring that temporary soil stabilization is applied within 7 days to areas denuded that will remain undisturbed for longer than 14 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.
- Calling (703) 228-0760 at least 80 hours before demolishing any structure.

I may be reached at 703-228-7050 with questions about this plan or my execution of the duties of Responsible Land Disturber.

Sincerely,
Anup Kafle
signed
Anup Kafle
name printed
PE and 0402056432
professional registration (type and number)



APPROVALS	DATE
<i>Anup Kafle</i> TRAFFIC SIGNAL ENGINEER	10/28/21
<i>John Nicks</i> TRAFFIC ENGINEERING MANAGER	11/05/2021
<i>John Nicks</i> WATER, SEWER, STREETS BUREAU CHIEF	12.23.2021
<i>John Nicks</i> TE&O BUREAU CHIEF	11/05/2021
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	12/23/21

REVISIONS	DATE

Project Name and Location
Washington Boulevard and N. Sycamore Street

GENERAL NOTES AND DETAILS

ARLINGTON COUNTY, VIRGINIA

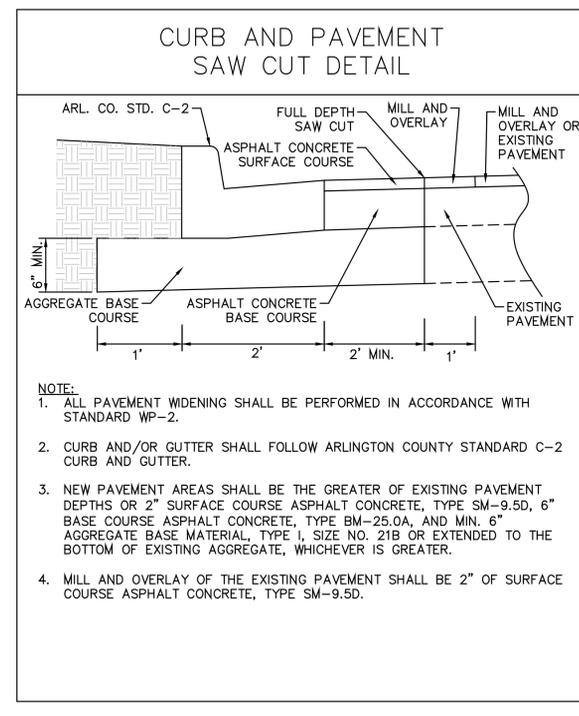
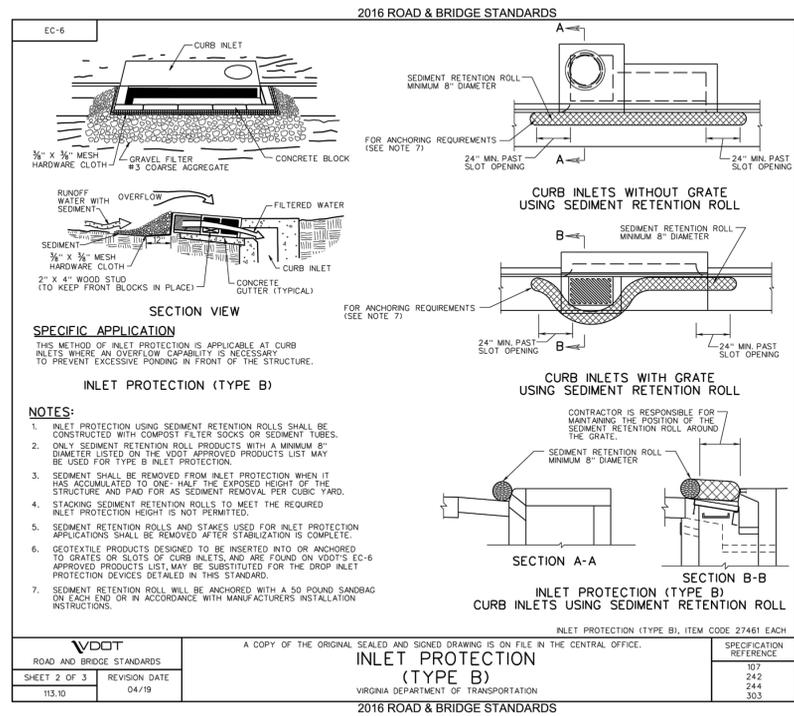
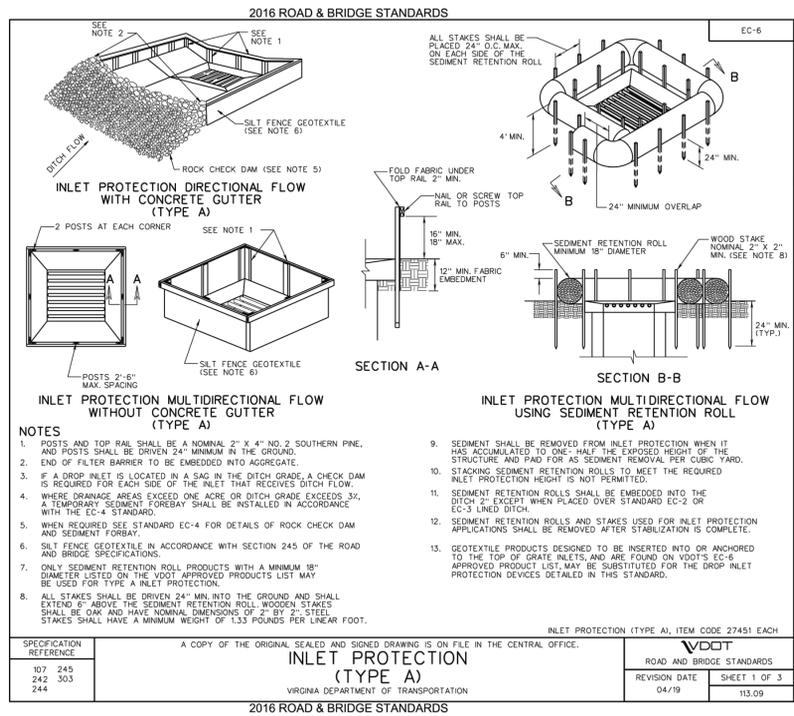
ID #107

Designed: AS
Drawn: NM
Checked: GG
Miss Utility Transmittal #:

Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 25' VERT. N/A

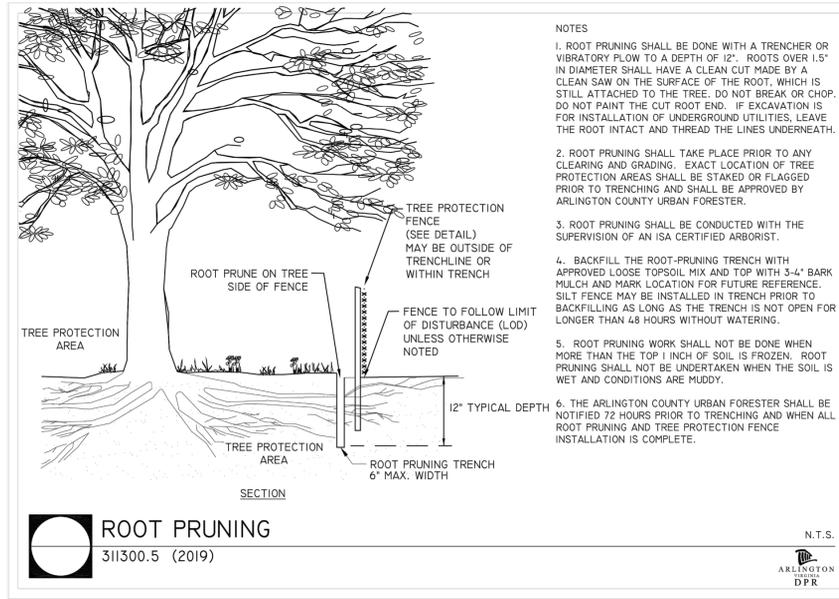
Sheet
C-0004



GENERAL DETAILS

REVISED: MARCH 03, 2020

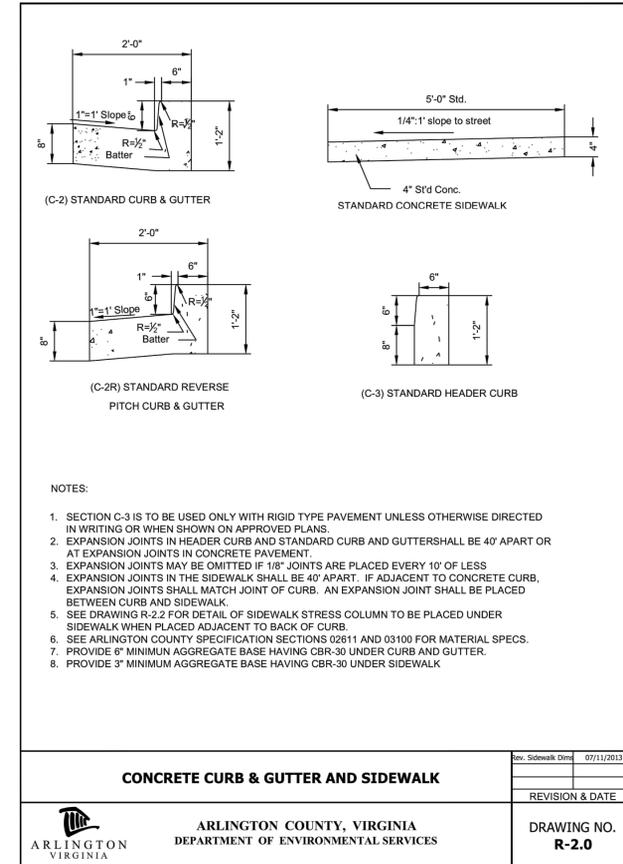
Filename: C-0002 GENERAL NOTES AND DETAILS.dwg
Path: K:\NVA_TPT\0110614002 - Washington Blvd and Sycamore\CAD\Plan\Sheets



- NOTES:
1. ROOT PRUNING SHALL BE DONE WITH A TRENCHER OR VIBRATORY FLOW TO A DEPTH OF 12". ROOTS OVER 1.5" IN DIAMETER SHALL HAVE A CLEAN CUT MADE BY A CLEAN SAW ON THE SURFACE OF THE ROOT, WHICH IS STILL ATTACHED TO THE TREE. DO NOT BREAK OR CHOP. DO NOT PAINT THE CUT ROOT END. IF EXCAVATION IS FOR INSTALLATION OF UNDERGROUND UTILITIES, LEAVE THE ROOT INTACT AND THREAD THE LINES UNDERNEATH.
 2. ROOT PRUNING SHALL TAKE PLACE PRIOR TO ANY CLEARING AND GRADING. EXACT LOCATION OF TREE PROTECTION AREAS SHALL BE STAKED OR FLAGGED PRIOR TO TRENCHING AND SHALL BE APPROVED BY ARLINGTON COUNTY URBAN FORESTER.
 3. ROOT PRUNING SHALL BE CONDUCTED WITH THE SUPERVISION OF AN ISA CERTIFIED ARBORIST.
 4. BACKFILL THE ROOT-PRUNING TRENCH WITH APPROVED LOOSE TOPSOIL MIX AND TOP WITH 3-4" BARK MULCH AND MARK LOCATION FOR FUTURE REFERENCE. SILT FENCE MAY BE INSTALLED IN TRENCH PRIOR TO BACKFILLING AS LONG AS THE TRENCH IS NOT OPEN FOR LONGER THAN 48 HOURS WITHOUT WATERING.
 5. ROOT PRUNING WORK SHALL NOT BE DONE WHEN MORE THAN THE TOP 1 INCH OF SOIL IS FROZEN. ROOT PRUNING SHALL NOT BE UNDERTAKEN WHEN THE SOIL IS WET AND CONDITIONS ARE MUDDY.
 6. THE ARLINGTON COUNTY URBAN FORESTER SHALL BE NOTIFIED 72 HOURS PRIOR TO TRENCHING AND WHEN ALL ROOT PRUNING AND TREE PROTECTION FENCE INSTALLATION IS COMPLETE.

ROOT PRUNING
311300.5 (2019)

N.T.S.
ARLINGTON
DPR



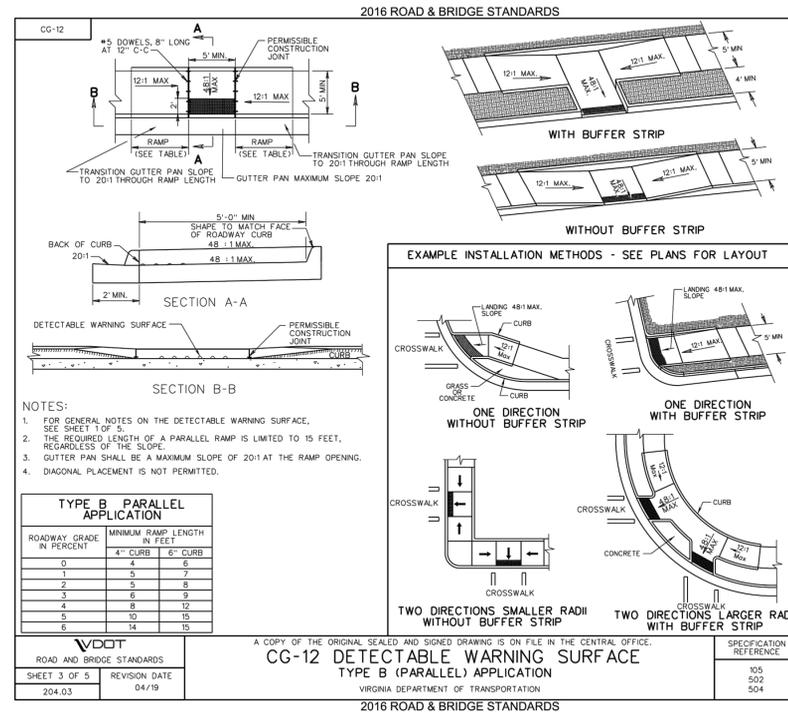
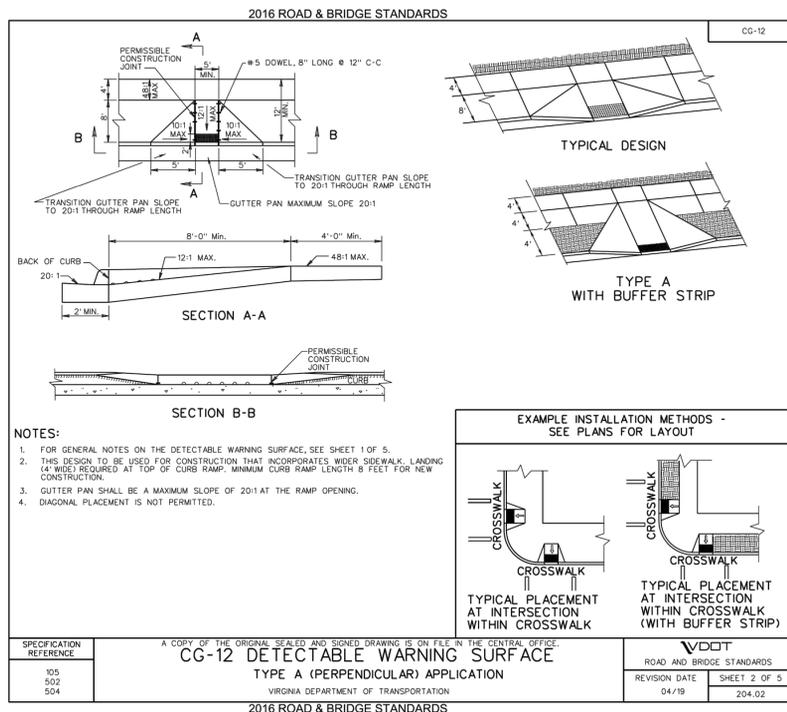
CONCRETE CURB & GUTTER AND SIDEWALK	Rev. Sidewalk Dwg. 07/11/2013
	REVISION & DATE
	DRAWING NO. R-2.0

ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

SEAL
COMMONWEALTH OF VIRGINIA
ANDREW T. SMITH
Lic. No. 0402053042
10/22/21
PROFESSIONAL ENGINEER

APPROVALS	DATE
<i>[Signature]</i> TRAFFIC SIGNAL ENGINEER	10/28/21
<i>[Signature]</i> TRAFFIC ENGINEERING MANAGER	11/05/2021
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	12.23.2021
<i>[Signature]</i> TE&O BUREAU CHIEF	11/05/2021
<i>[Signature]</i> TRANSPORTATION DIRECTOR	12/23/21

REVISIONS	DATE



Project Name and Location
Washington Boulevard and N. Sycamore Street
GENERAL NOTES AND DETAILS
ID #107
ARLINGTON COUNTY, VIRGINIA

Designed: AS
Drawn: NM
Checked: GG
Miss Utility Transmittal #:

Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 25' VERT. N/A

Sheet
C-0005

GENERAL DETAILS

REVISED: MARCH 05, 2020

		NUMBER OF BARS A										
		W (Ft.)	N=1-5	N=6	N=7	N=8	N=9	N=10	N=11	N=12	N=13-25	
3	No Steel	4	5	5	6	6	7	7	8			
4		5	6	7	7	8	8	9	10			
5		6	7	8	9	9	10	11	12			

CONCRETE STEPS ON 2:1 SLOPE

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

ARLINGTON VIRGINIA

REVISION & DATE

DRAWING NO. **R-3.0**

Notes:

- Refer to Section 05500 for Handrail Specifications.
- Fittings shall be used or joints may be welded.
- Rails shall be standard weight and post shall be extra strong steel pipe.
- Handrails to be shop galvanized or painted in accordance with Section 09900.

STAIR SECTION

BASE MOUNTING DETAIL

SLAB OR LANDING SECTION

PIPE HANDRAIL

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

ARLINGTON VIRGINIA

REVISION & DATE

DRAWING NO. **R-3.1**

CATCH BASIN COVER PLAN

SECTION C-C

PLAN VIEW

SECTION D-D

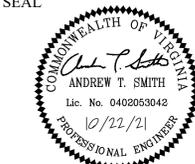
PROPOSED MODIFIED CATCH BASIN (8179) WITH EXTEND THROAT DETAIL
(NOT TO SCALE)



DEPARTMENT OF ENVIRONMENTAL SERVICES

Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

SEAL



APPROVALS DATE

<i>James Kelle</i>	10/28/21
TRAFFIC SIGNAL ENGINEER	
<i>John Nicks</i>	11/05/2021
TRAFFIC ENGINEERING MANAGER	
<i>Debra</i>	12.23.2021
WATER, SEWER, STREETS BUREAU CHIEF	
<i>John</i>	11/05/2021
TE&O BUREAU CHIEF	
<i>Dennis M. Leach</i>	12/23/21
TRANSPORTATION DIRECTOR	

REVISIONS DATE

Project Name and Location
Washington Boulevard and N. Sycamore Street

GENERAL NOTES AND DETAILS

ID #107

ARLINGTON COUNTY, VIRGINIA

Designed: AS
Drawn: NM
Checked: GG
Miss Utility Transmittal #:

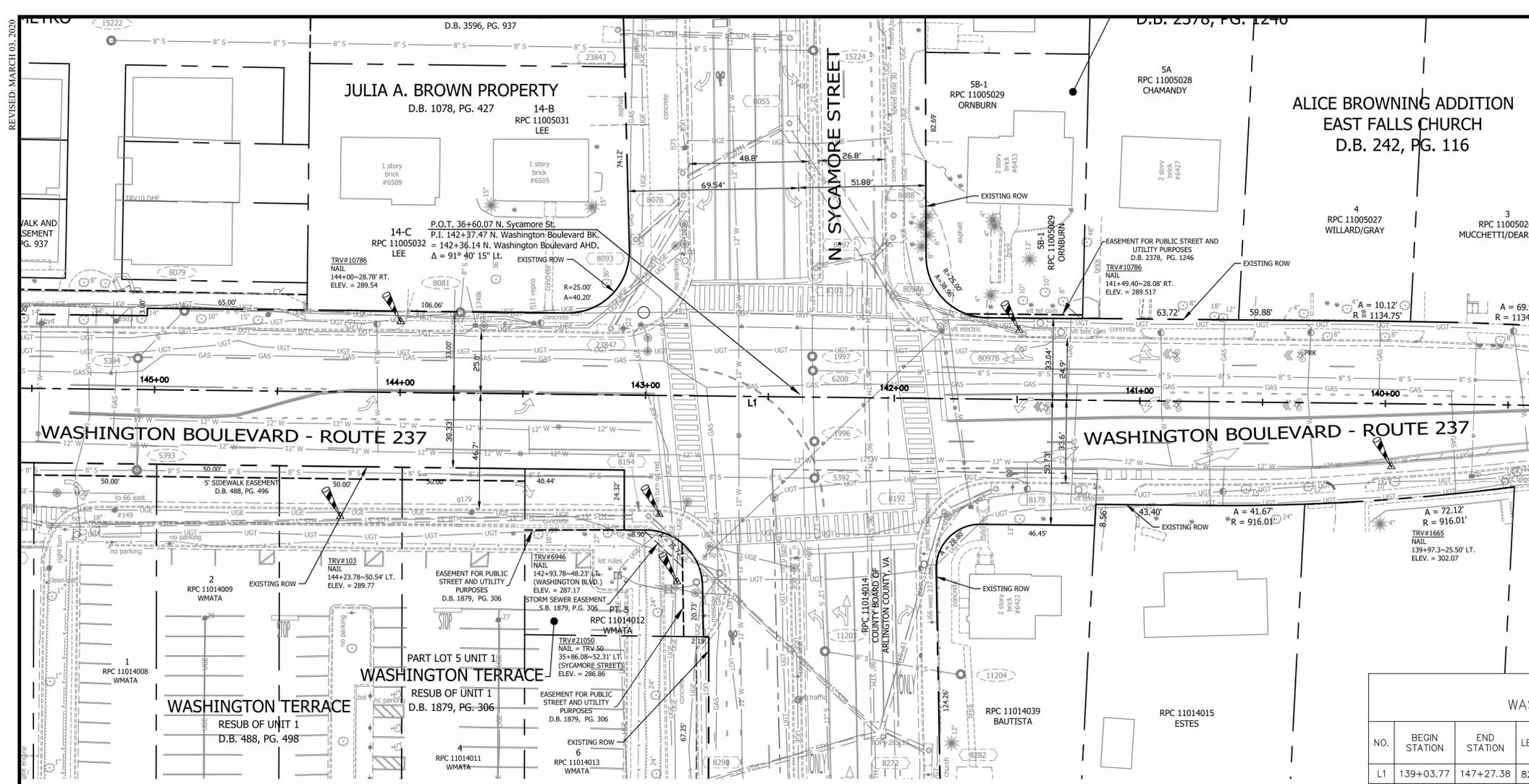
Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 25' VERT. N/A

Sheet **C-0006**

Filename: C-0002 GENERAL NOTES AND DETAILS.dwg
Path: K:\NVA_TPT\0110614002 - Washington Blvd and SycamoreCAD\Plan\Sheets

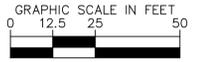
REVISED: MARCH 03, 2020



NOTE:

- 1. S.U.E. UTILITIES WERE DESIGNATED BY MID-ATLANTIC UTILITY LOCATING ON 10/11/18 & 8/16/19 AND LOCATED BY ARLINGTON COUNTY SURVEYORS ON 10/26/18 & 8/21/19.
- 2. DIAMETER OF WATER LINES & SANITARY SEWER ARE SHOWN PER ARLINGTON COUNTY RECORDS.

THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF ROBERT L. FRANCA, L.S. FROM AN ACTUAL GROUND SURVEY MADE UNDER HIS SUPERVISION; THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED FROM 06/2010 TO 09/2013 AND UPDATED FROM 10/2018 TO 11/2018 AND FROM 07/2019 TO 08/2019; AND THAT THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.



CONTROL DATA:

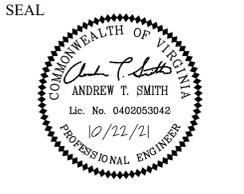
PROJECT CONTROL TAKEN FROM PROJECT S17D AND TRAFFIC PROJECT T155.

POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
10786	7009098.0243	11865211.4910	289.53	NAIL
103	7009018.9964	11865186.8428	289.76	NAIL
6946	7009019.8494	11865316.8595	287.17	NAIL

PROJECT CONTROL



DEPARTMENT OF ENVIRONMENTAL SERVICES
Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606



APPROVALS

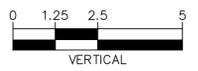
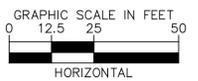
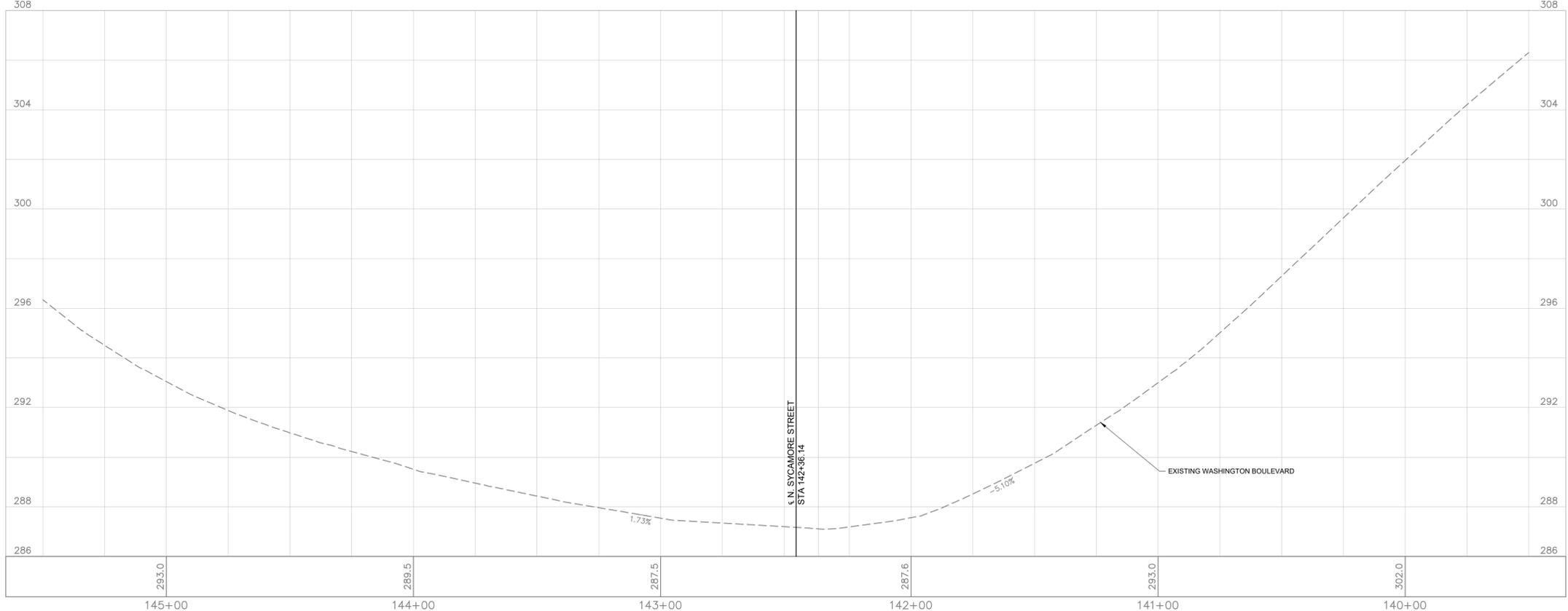
NAME	DATE
<i>James Kettle</i>	10/28/21
<i>John Nicks</i>	11/05/2021
<i>John Nicks</i>	12.23.2021
<i>John Nicks</i>	11/05/2021
<i>Dennis M. Leach</i>	12/23/21

REVISIONS

NO.	DATE

ALIGNMENT TABLE
WASHINGTON BLVD (ROUTE 237)

NO.	BEGIN STATION	END STATION	LENGTH	COORDINATES NORTHING (START)	COORDINATES EASTING (START)	COORDINATES NORTHING (END)	COORDINATES EASTING (END)
L1	139+03.77	147+27.38	824.93'	7009063.6813	11865708.7152	7009072.9384	11864883.8346



HORIZONTAL DATUM: VIRGINIA COORDINATE SYSTEM 1983 - NORTH ZONE.
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM 1988.

BOUNDARY INFORMATION SHOWN HEREON WAS COMPILED FROM EXISTING LAND RECORDS AND DOES NOT REPRESENT A FIELD RUN BOUNDARY SURVEY.

Project Name and Location
Washington Boulevard and N. Sycamore Street
EXISTING CONDITIONS
ARLINGTON COUNTY, VIRGINIA
ID #107

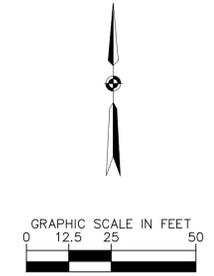
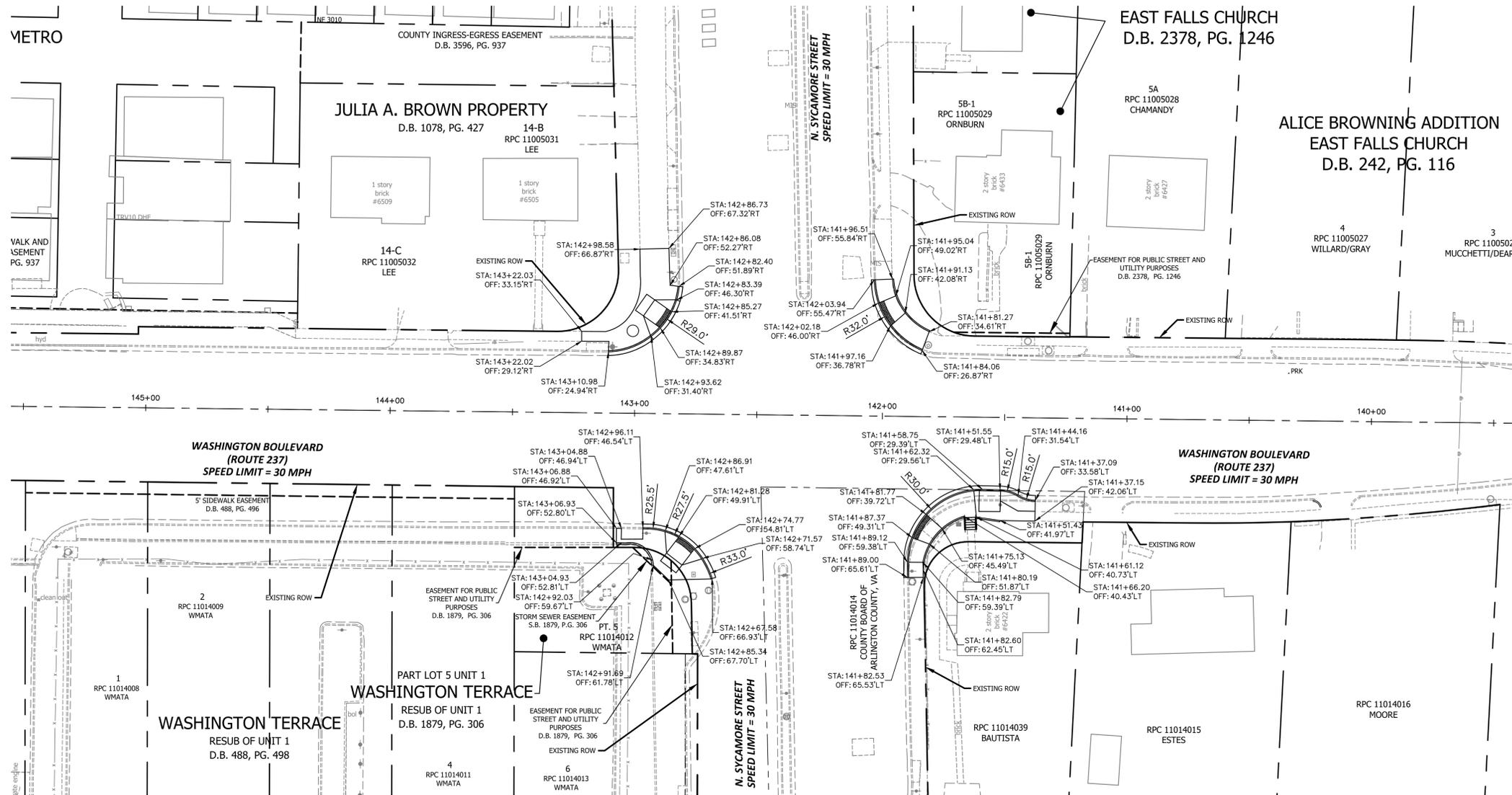
Designed: AS
Drawn: NM
Checked: GG
Miss Utility Transmittal #:

Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 25' VERT. 1" = 2.5'

Sheet
C-0100

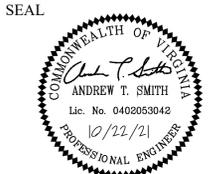
Filename: C-0100 EXISTING CONDITIONS.dwg
Path: K:\NVA_TPT\0110614002 - Washington Blvd and Sycamore\CAD\Plin\Sheets



- NOTES:
1. ALL LABELS AT FACE OF CURB UNLESS OTHERWISE NOTED.
 2. CONTRACTOR SHALL PERFORM FULL DEPTH SAWCUT 2' FROM THE FACE OF THE PROPOSED CURB AND GUTTER. REFER TO SHEET C-0300 FOR EXTENT OF DEMOLITION WORK.



DEPARTMENT OF ENVIRONMENTAL SERVICES
Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606



APPROVALS	DATE
<i>James Keller</i>	10/28/21
<i>John Nicks</i>	11/05/2021
<i>John Nicks</i>	12.23.2021
<i>John Nicks</i>	11/05/2021
<i>Dennis M. Leach</i>	12/23/21

REVISIONS	DATE

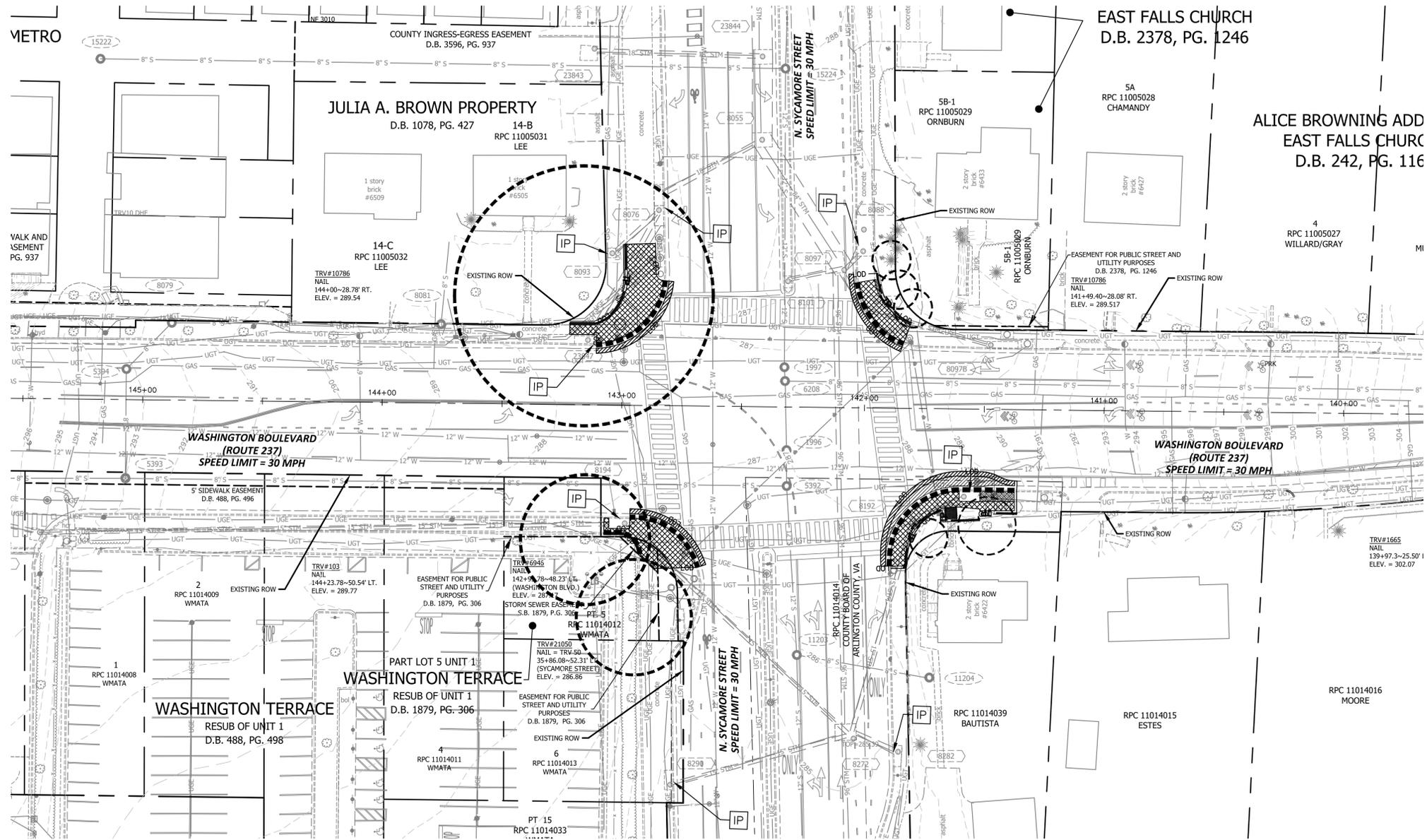
Project Name and Location
Washington Boulevard and N. Sycamore Street
GEOMETRIC CONTROL PLAN
ID #107
ARLINGTON COUNTY, VIRGINIA

Designed: AS
Drawn: NM
Checked: GG
Miss Utility Transmittal #:

Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 25' VERT. N/A

Sheet
C-0200



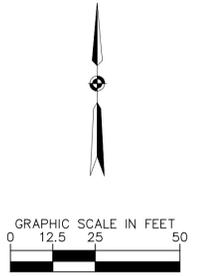
LEGEND

- REMOVE FULL DEPTH BITUMINOUS SURFACE
- REMOVE CONCRETE RAMP
- REMOVE LANDSCAPED AREA
- REMOVE CONCRETE STAIRS
- REMOVE CONCRETE CURB AND GUTTER OR CURB
- STORM SEWER STRUCTURE INLET PROTECTION TYPE A OR B
- EROSION CONTROL FENCE (SILT FENCE)
- TREE PROTECTION
- LIMITS OF DISTURBANCE
- CRITICAL ROOT ZONE

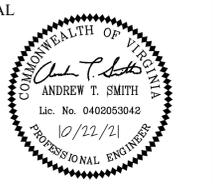
- NOTES:**
1. EROSION AND SEDIMENT PROTECTION MEASURES SHOULD BE INSTALLED ONLY WHEN NEEDED FOR THE CONSTRUCTION ZONE. IF A PROTECTION MEASURE IS NOT IMPACTED BY THE CONSTRUCTION THEN IT SHOULD BE REMOVED UPON CONCURRENCE FROM COUNTY E&S/WPPP INSPECTOR.
 2. SEE TRAFFIC SIGNALS PLAN FOR DEMOLITION OF TRAFFIC SIGNALS.
 3. SEE SIGNING AND MARKING PLAN FOR LOCATIONS OF SIGNS TO BE REMOVED OR RELOCATED. COORDINATE RELOCATIONS WITH MOT AND CONSTRUCTION ACTIVITIES.
 4. CONTRACTOR SHALL PROTECT AND RETAIN ALL EXISTING MANHOLE LIDS, VALVES, AND JUNCTION BOXES.
 5. THE CONTRACTOR SHALL PRESERVE ALL BUS STOPS, INCLUDING MAINTAINING ADEQUATE ACCESS THROUGH AND ADJACENT TO THE CONSTRUCTION FOR BUSES AND THEIR PASSENGERS. THE CONTRACTOR SHALL NOT CLOSE, RELOCATE, OR OTHERWISE MODIFY A BUS STOP WITHOUT PRIOR REQUEST OF THE PROJECT OFFICER. TYPICALLY ANY RELOCATION OR CLOSURE OF A BUS STOP WILL REQUIRE AT LEAST FOUR WEEKS ADVANCE NOTICE FOR COORDINATION WITH THE COUNTY'S BUS STOP COORDINATOR AT 703-228-3049. ALL TEMPORARY AND FINAL BUS TRAVEL LANES MUST BE MINIMUM 11' WIDE.
 6. TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING, OR DEMOLITION. CONTACT THE COUNTY URBAN FORESTER AT 703-228-1863, 72 HOURS BEFORE THE START OF CONSTRUCTION, TO COORDINATE AND INSPECT TREE PROTECTION.
 7. NO TREES ARE PROPOSED TO BE ADDED OR REMOVED AS PART OF THIS PLAN. TREE PROTECTION TABLE NOT INCLUDED.
 8. CONTRACTOR TO COORDINATE WITH DRY UTILITY COMPANIES TO PROTECT EXISTING UTILITY POLES.
 9. WITHIN CRITICAL ROOT ZONE, CONTRACTOR TO PERFORM EXCAVATION BY HAND BELOW STONE WORK.

TOTAL LOD (SF)	TOTAL LOD (AC)	PRE DEVELOPMENT IMPERVIOUS AREA WITHIN LOD (SF)	PRE DEVELOPMENT % OF IMPERVIOUS AREA WITHIN LOD
2948	0.0677	2697	91%

POTOMAC RIVER-FOUR MILE RUN WATERSHED (HUC12: 020700100301, VAHU6: PL25)



ARLINGTON VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 Signal Systems and ITS
 Traffic Engineering and Operations Bureau
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
 Phone: 703.228.3629
 Fax: 703.228.3606



APPROVALS

NAME	DATE
Andrew T. Smith	10/28/21
John N. Nicks	11/05/2021
John N. Nicks	12/23/2021
John N. Nicks	11/05/2021
Dennis M. Leach	12/23/21

REVISIONS

NO.	DESCRIPTION	DATE

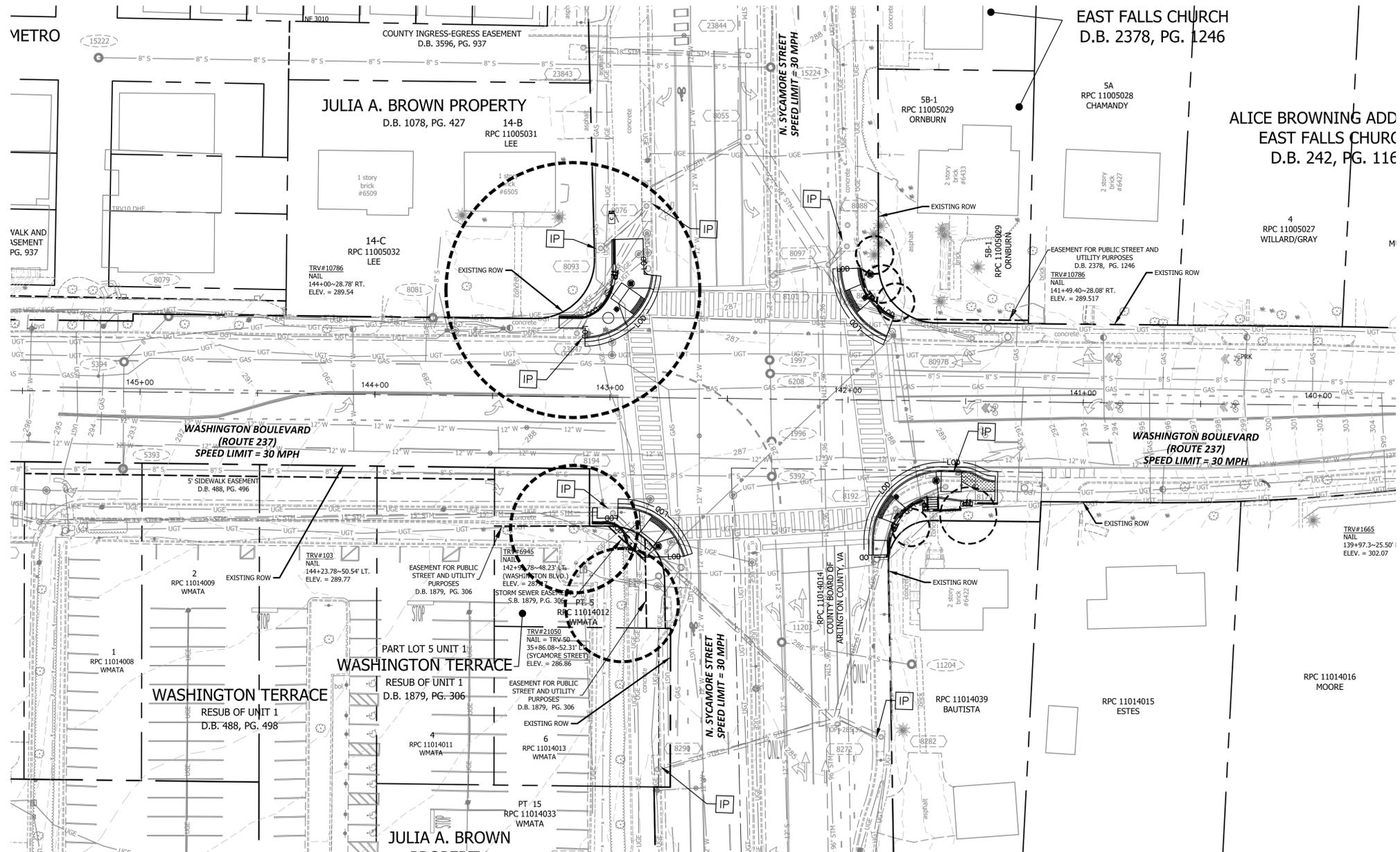
Project Name and Location
Washington Boulevard and N. Sycamore Street
 PHASE 1 EROSION CONTROLS & DEMO PLAN
 ID #107
 ARLINGTON COUNTY, VIRGINIA

Designed: AS
 Drawn: NM
 Checked: GG
 Miss Utility Transmittal #:

Plotted: January 05, 2022
 Plotted by: Nicole.McVey

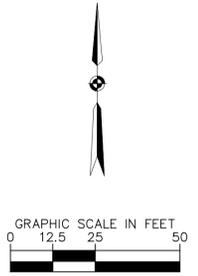
Scale:
 HOR. 1" = 25' VERT. N/A

Sheet
C-0300



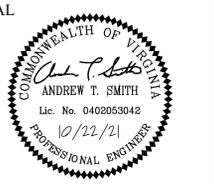
TOTAL LOD (SF)	TOTAL LOD (AC)	POST DEVELOPMENT IMPERVIOUS AREA WITHIN LOD (SF)	POST DEVELOPMENT % OF IMPERVIOUS AREA WITHIN LOD
2948	0.0677	2707	92%

POTOMAC RIVER-FOUR MILE RUN WATERSHED (HUC12: 020700100301, VAHU6: PL25)



- LEGEND**
- SODDING
 - STORM SEWER STRUCTURE INLET PROTECTION TYPE A OR B
 - EROSION CONTROL FENCE (SILT FENCE)
 - TREE PROTECTION
 - LIMITS OF DISTURBANCE
 - CRITICAL ROOT ZONE

ARLINGTON VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 Signal Systems and ITS
 Traffic Engineering and Operations Bureau
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
 Phone: 703.228.3629
 Fax: 703.228.3606



APPROVALS

NAME	DATE
<i>Andrew T. Smith</i> TRAFFIC SIGNAL ENGINEER	10/28/21
<i>John Nicks</i> TRAFFIC ENGINEERING MANAGER	11/05/2021
<i>Julia</i> WATER, SEWER, STREETS BUREAU CHIEF	12.23.2021
<i>John</i> TE&O BUREAU CHIEF	11/05/2021
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	12/23/21

REVISIONS

NO.	DESCRIPTION	DATE

Project Name and Location
Washington Boulevard and N. Sycamore Street
 PHASE 2 EROSION CONTROLS
 ID #107
 ARLINGTON COUNTY, VIRGINIA

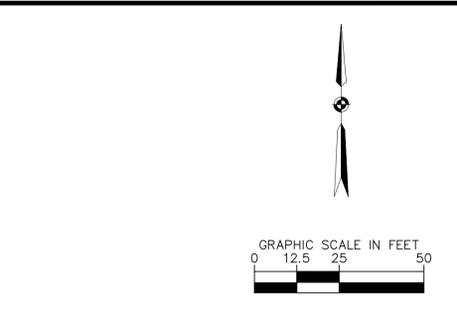
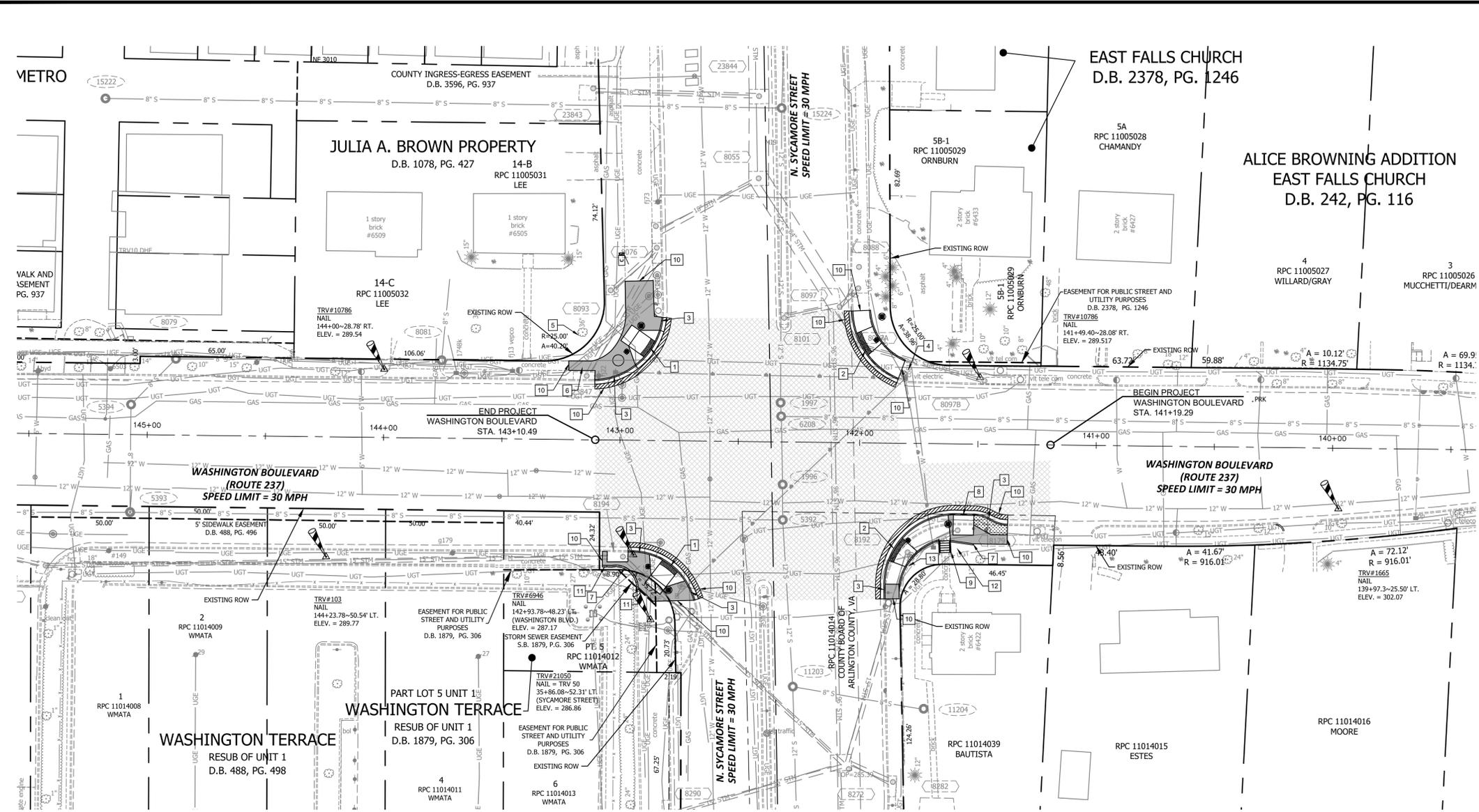
Designed: AS
 Drawn: NM
 Checked: GG
 Miss Utility Transmittal #:

Plotted: January 05, 2022
 Plotted by: Nicole.McVey

Scale:
 HOR. 1" = 25' VERT. N/A

Sheet
C-0310

FILENAME: C-0400 PROPOSED PLAN AND PROFILE.DWG
 PATH: K:\NVA_TPT\0110614002 - Washington Blvd and Sycamore Blvd\CAD\Plan\Sheets



- LEGEND**
- 1 VDOT CG-12 TYPE A PEDESTRIAN CURB RAMP
 - 2 VDOT CG-12 TYPE B PEDESTRIAN CURB RAMP
 - 3 ARL. CO. STD. C-2 CURB AND GUTTER
 - 4 TRIM EXISTING VEGETATION OVERHANGING SIDEWALK WITHIN RIGHT-OF-WAY
 - 5 TRIM EXISTING BRANCH OVERHANG CONFLICTING WITH PROPOSED WESTBOUND MAST ARM
 - 6 ROOT PRUNE EXISTING TREE DURING SIDEWALK RECONSTRUCTION
 - 7 ARL. CO. STD. C-3 HEADER CURB
 - 8 MODIFY EXISTING CATCH BASIN WITH THROAT EXTENSION. SEE DETAIL ON SHEET C-0006
 - 9 ARL. CO. STD. CONCRETE STEPS ON 2:1 SLOPE AND ARL. CO. STD. PIPE HANDRAIL ON EACH SIDE
 - 10 FULL DEPTH SAWCUT
 - 11 TRANSITION FROM EXISTING CURB TO ARL. CO. STD. C-3 HEADER CURB (2-FOOT TRANSITION)
 - 12 GRADE BACK EXISTING SLOPE AT 3:1 TO MEET EXISTING GROUND
 - 13 EXISTING RETAINING WALL TO REMAIN IN PLACE. HEADER CURB TO BE BUILT IN FRONT OF RETAINING WALL.
- STORM DRAINAGE DESCRIPTIONS**
- 8192 Adjust Existing Manhole
Adjust To Grade, Lower 0.35'
1 Std. MH-1 Frame & Cover Req.
Proposed Top Elev = 286.89'
- 8179 Adjust Existing Catch Basin
Adjust to Grade, Raise 0.12'
See Detail on Sheet C-0006 for New Top
Proposed Top Elev = 288.89
- SYMBOLS:**
- [Pattern] MILL & OVERLAY
 - [Pattern] ARL. CO. STD. CONCRETE SIDEWALK
 - [Pattern] FULL DEPTH ASPHALT PAVEMENT
 - [Pattern] LANDSCAPE AREA

- NOTE:**
1. CONTRACTOR TO ADJUST ALL EXISTING UTILITIES TO PROPOSED GRADE UNLESS NOTED ON THE PLANS. THE COST TO COMPLETE ADJUSTMENTS IS TO BE INCLUDED IN OTHER PAY ITEMS.
 2. CONTRACTOR TO ROOT PRUNE UPON ENCOUNTERING ROOTS. CONTRACTOR TO ROOT PRUNE BY HAND.

DEPARTMENT OF ENVIRONMENTAL SERVICES

Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

SEAL

APPROVALS **DATE**

<i>Andrew T. Smith</i> TRAFFIC SIGNAL ENGINEER	10/28/21
<i>John N. Nicks</i> TRAFFIC ENGINEERING MANAGER	11/05/2021
<i>John P. ...</i> WATER, SEWER, STREETS BUREAU CHIEF	12/23/2021
<i>John ...</i> TELECOMMUNICATIONS BUREAU CHIEF	11/05/2021
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	12/23/21

REVISIONS **DATE**

Project Name and Location
Washington Boulevard and N. Sycamore Street

PROPOSED PLAN

ID #107

ARLINGTON COUNTY, VIRGINIA

Designed: AS
Drawn: NM
Checked: GG
Miss Utility Transmittal #:

Plotted: January 05, 2022
Plotted by: Nicole.McVey

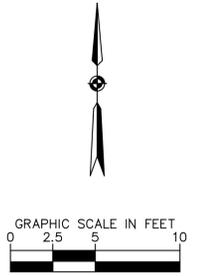
Scale:
HOR. 1" = 25' VERT. N/A

Sheet
C-0400

REVISED: MARCH 03, 2020

GRADING DETAIL - NW CORNER (CG-12 TYPE A)

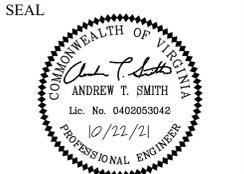
GRADING DETAIL - NE CORNER (CG-12 TYPE B)



ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES

Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606



APPROVALS	DATE
<i>James Keller</i>	10/28/21
TRAFFIC SIGNAL ENGINEER	
<i>John Nicks</i>	11/05/2021
TRAFFIC ENGINEERING MANAGER	
<i>John Nicks</i>	12.23.2021
WATER, SEWER, STREETS BUREAU CHIEF	
<i>John Nicks</i>	11/05/2021
TELECOMMUNICATIONS BUREAU CHIEF	
<i>Dennis M. Leach</i>	12/23/21
TRANSPORTATION DIRECTOR	

REVISIONS	DATE

GRADING DETAIL - SW CORNER (CG-12 TYPE A)

GRADING DETAIL - SE CORNER (CG-12 TYPE B)

GRADING LEGEND

- ME = MATCH EXISTING
- TOC = TOP OF CURB
- EOP = EDGE OF PAVEMENT
- SW = SIDEWALK
- FL = FLOW LINE

NOTE: PROPOSED ELEVATIONS ALONG EXISTING RETAINING WALL SHALL MATCH EXISTING OR BE GREATER THAN EXISTING.

Project Name and Location
Washington Boulevard and N. Sycamore Street

RAMP DETAILS

ID #107

ARLINGTON COUNTY, VIRGINIA

Designed: AS
Drawn: NM
Checked: GG
Miss Utility Transmittal #:

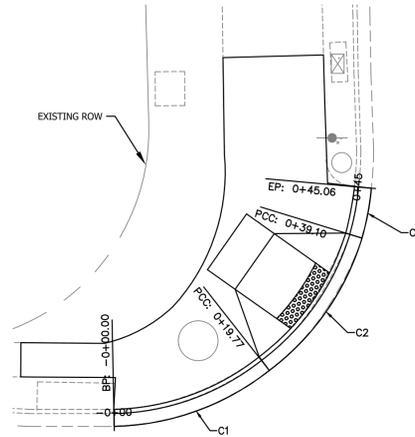
Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 5' VERT. N/A

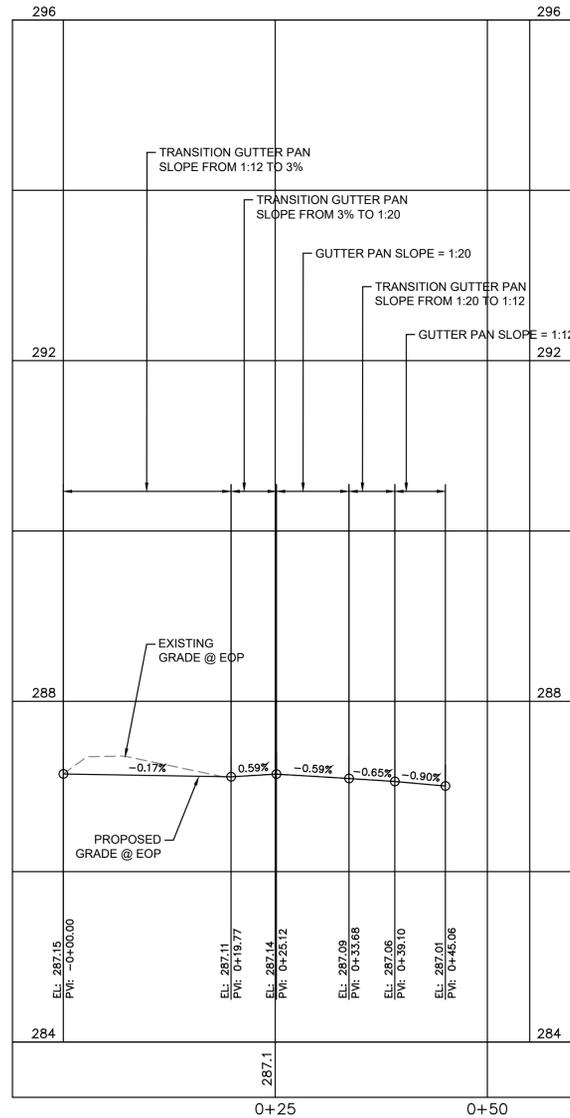
Sheet
C-0500

Filename: C-0500 RAMP DETAILS.dwg
Path: K:\NVA_TPT\110614002 - Washington Blvd and Sycamore\CAD\Plan\Sheets

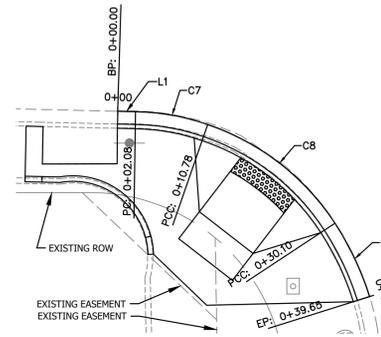
N. SYCAMORE ST
NW CORNER



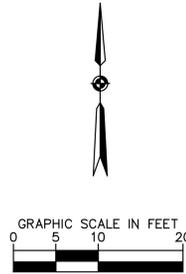
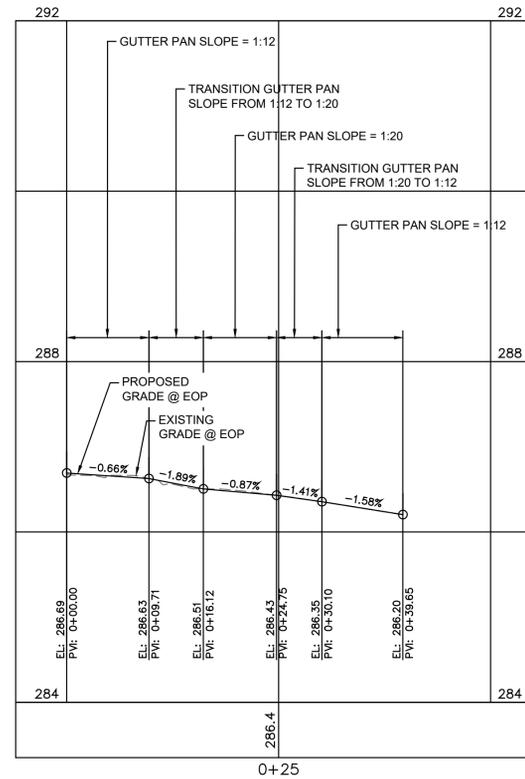
N Sycamore St NW						
NO.	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA OR BRG	TANGENT
C1	30.5'	19.77'	N70° 15' 55.03"E	19.43	Δ=37° 08' 38"	10.25
C2	30.5'	19.32'	N35° 06' 18.04"E	19.00	Δ=36° 18' 04"	10.00
C3	30.5'	5.96'	N10° 44' 31.12"E	5.95	Δ=11° 12' 16"	2.99



N. SYCAMORE ST
SW CORNER

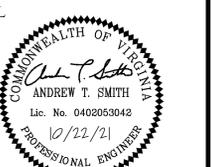


N Sycamore St SW						
NO.	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA OR BRG	TANGENT
C7	27.0'	8.69'	S79° 57' 33.23"E	8.66	Δ=18° 27' 04"	4.39
C8	29.0'	19.32'	S52° 20' 35.23"E	18.96	Δ=38° 10' 17"	10.03
C9	34.5'	9.55'	S25° 19' 26.95"E	9.52	Δ=15° 51' 59"	4.81
L1		2.08'			S 88°18'15" E	



DEPARTMENT OF ENVIRONMENTAL SERVICES

Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606



APPROVALS DATE

Joseph Keller 10/28/21
TRAFFIC SIGNAL ENGINEER
John Nicks 11/05/2021
TRAFFIC ENGINEERING MANAGER
Julia 12.23.2021
WATER, SEWER, STREETS BUREAU CHIEF
John 11/05/2021
TE&O BUREAU CHIEF
Dennis M. Leach 12/23/21
TRANSPORTATION DIRECTOR

REVISIONS DATE

NO.	DESCRIPTION	DATE

Project Name and Location
**Washington Boulevard and
N. Sycamore Street**
CURB RETURN PROFILES
ID #107
ARLINGTON COUNTY, VIRGINIA

Designed: AS
Drawn: NM
Checked: GG
Miss Utility Transmittal #:

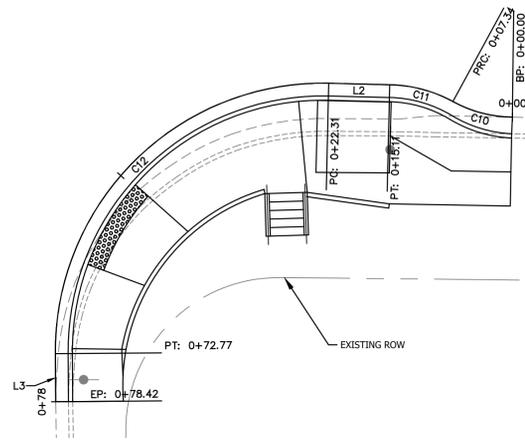
Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 10' VERT. 1" = 5'

Sheet
C-0600

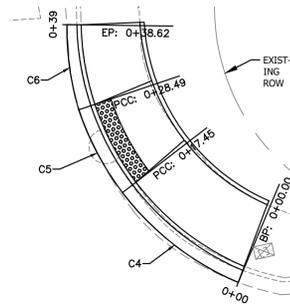
File name: C-0600 CURB RETURN PROFILES.dwg
 Path: K:\NVA_TPT\110614002 - Washington Blvd and Sycamore Blvd\CAD\PlanSheets
 REVISED: MARCH 03, 2020

N. SYCAMORE ST SE CORNER

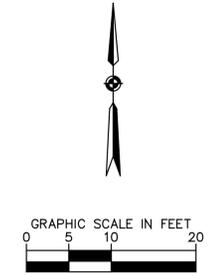


N Sycamore St SE						
NO.	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA OR BRG	TANGENT
C10	15.0'	7.34'	N75° 20' 11.55"W	7.26	Δ=28° 01' 07"	3.74
C11	16.5'	7.77'	N75° 09' 37.52"W	7.70	Δ=26° 59' 50"	3.96
C12	31.5'	50.46'	S45° 26' 45.66"W	45.24	Δ=91° 47' 24"	32.50
L2		7.20'			N 88°39'32" W	
L3		5.64'			S 0°26'56" E	

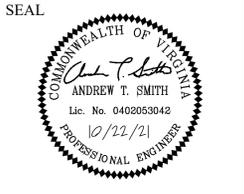
N. SYCAMORE ST NE CORNER



N Sycamore St NE						
NO.	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA OR BRG	TANGENT
C4	33.5'	17.45'	N52° 18' 17.86"W	17.26	Δ=29° 51' 13"	8.93
C5	33.5'	11.04'	N27° 57' 07.98"W	10.99	Δ=18° 52' 44"	5.57
C6	33.5'	10.12'	N7° 57' 11.36"W	10.09	Δ=17° 18' 52"	5.10

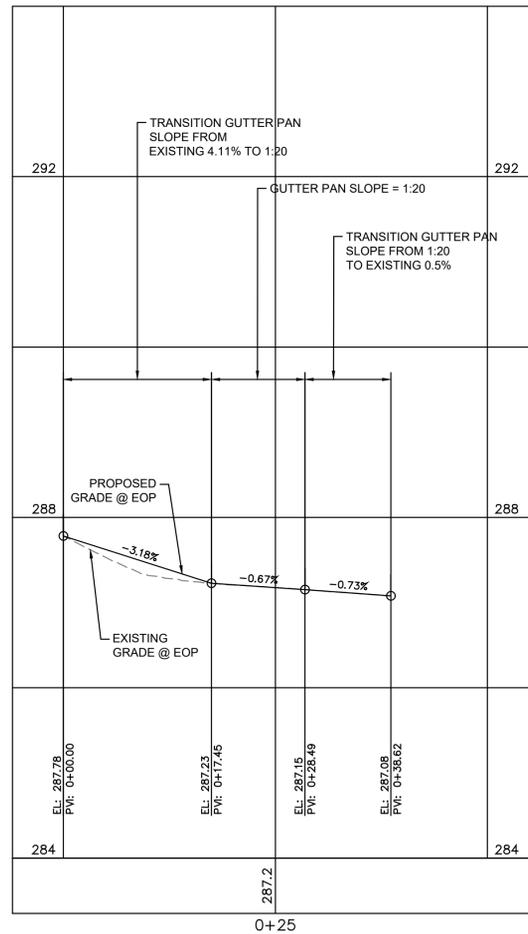
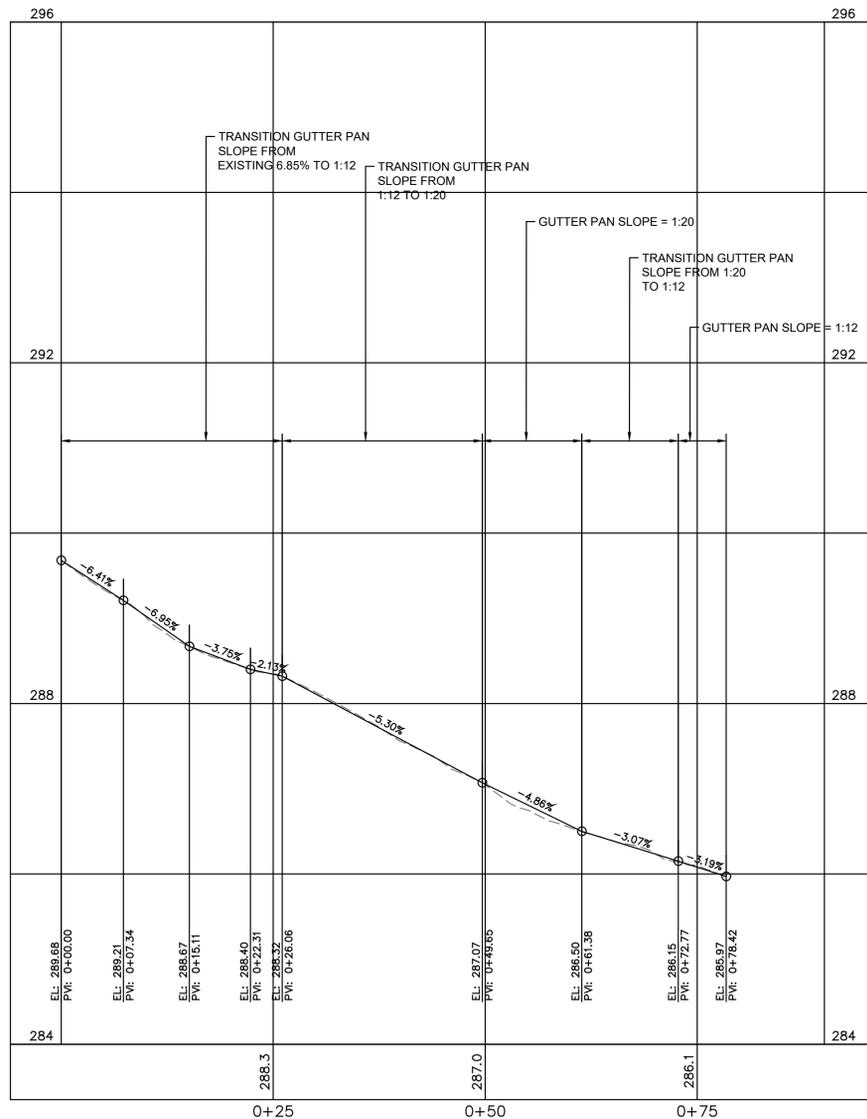


ARLINGTON VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 Signal Systems and ITS
 Traffic Engineering and Operations Bureau
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
 Phone: 703.228.3629
 Fax: 703.228.3606



APPROVALS	DATE
<i>James Keller</i> TRAFFIC SIGNAL ENGINEER	10/28/21
<i>John Nicks</i> TRAFFIC ENGINEERING MANAGER	11/05/2021
<i>John Nicks</i> WATER, SEWER, STREETS BUREAU CHIEF	12.23.2021
<i>John Nicks</i> TEAO BUREAU CHIEF	11/05/2021
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	12/23/21

REVISIONS	DATE



Project Name and Location
**Washington Boulevard and
N. Sycamore Street**
 CURB RETURN PROFILES
 ID #107
 ARLINGTON COUNTY, VIRGINIA

Designed: AS
 Drawn: NM
 Checked: GG
 Miss Utility Transmittal #:

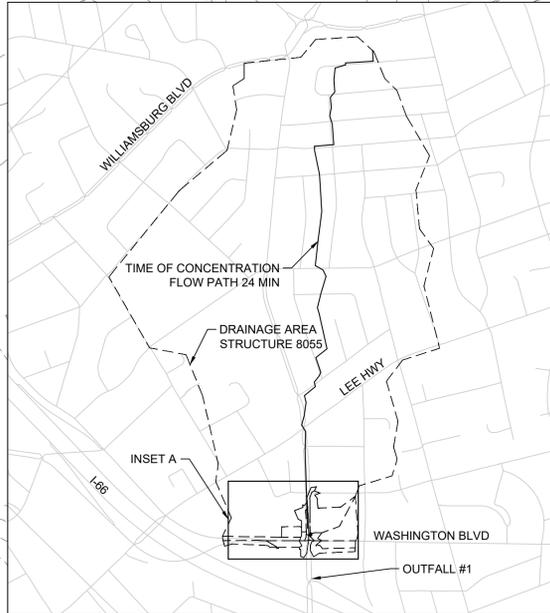
Plotted: January 05, 2022
 Plotted by: Nicole.McVey

Scale:
 HOR. 1" = 10' VERT. 1" = 5'

Sheet
C-0601

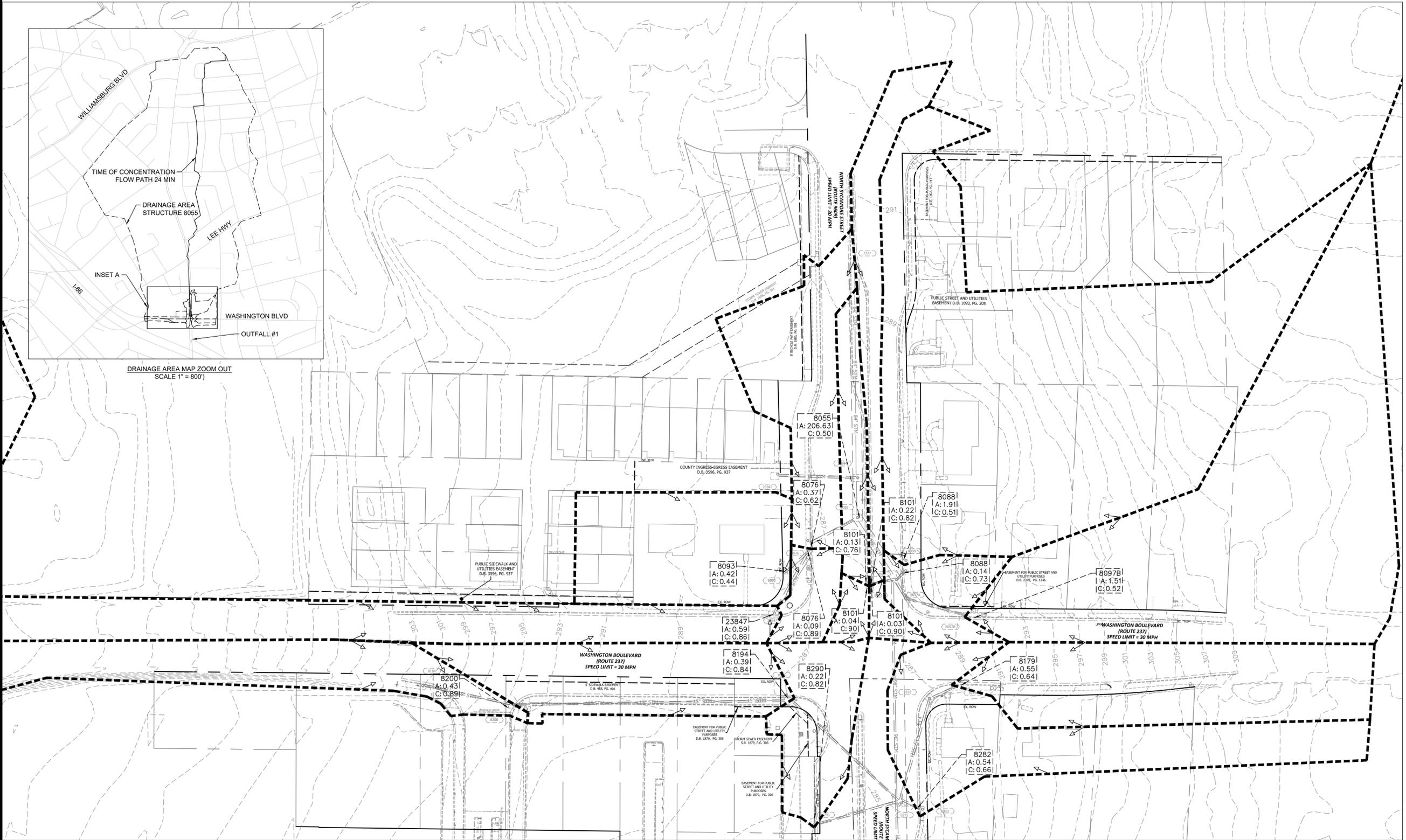
REVISED: MARCH 03, 2020

Filename: C-0700 STORMWATER.dwg
Path: K:\NSVA_TPT\0110614002 - Washington Blvd and Sycamore\CAD\Plm\Sheets



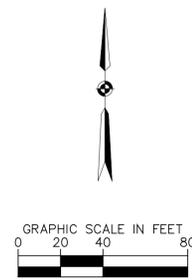
DRAINAGE AREA MAP ZOOM OUT
SCALE 1" = 800'

INSET A - DRAINAGE MAP ZOOM IN



LEGEND

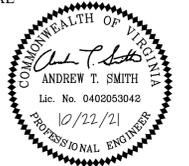
- DRAINAGE AREA BOUNDARY
- FLOW PATH
- STRUCTURE AREA (AC) RUNOFF COEFFICIENT
- DRAINAGE AREA LABEL



DEPARTMENT OF ENVIRONMENTAL SERVICES

Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

SEAL



APPROVALS DATE

<i>[Signature]</i>	10/28/21
<i>[Signature]</i>	11/05/2021
<i>[Signature]</i>	12.23.2021
<i>[Signature]</i>	11/05/2021
<i>[Signature]</i>	12/23/21

REVISIONS DATE

Project Name and Location
Washington Boulevard and N. Sycamore Street
PRE DEVELOPMENT DRAINAGE DIVIDES

ID #107
ARLINGTON COUNTY, VIRGINIA

Designed: DD
Drawn: NM
Checked: GG
Miss Utility Transmittal #:

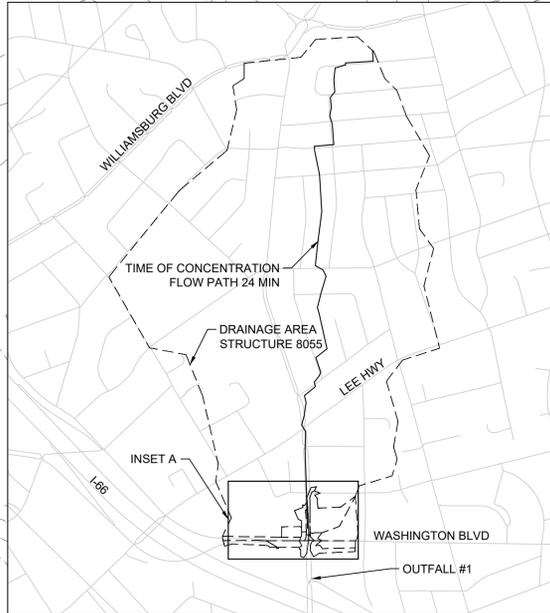
Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 40' VERT. N/A

Sheet C-0700

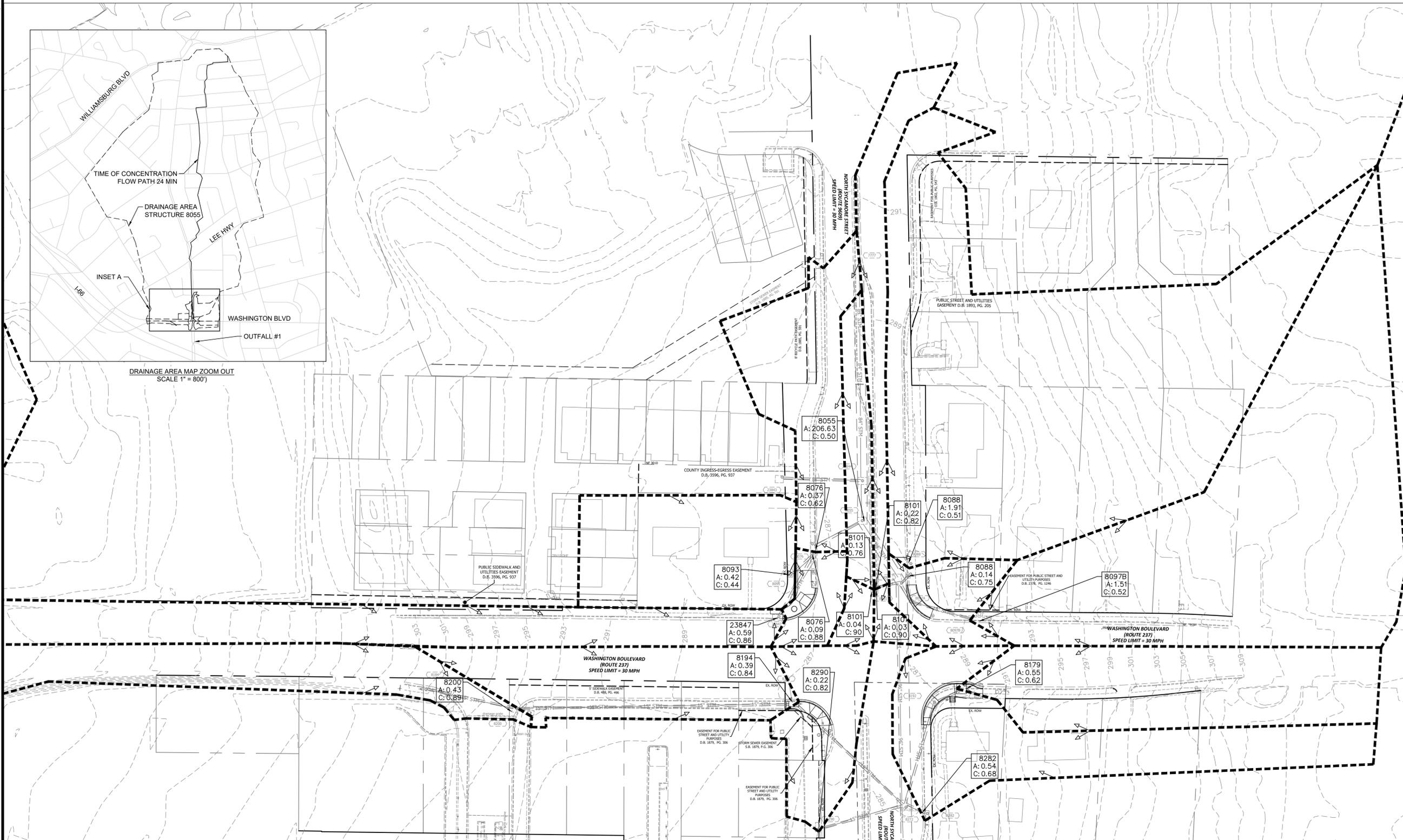
REVISED: MARCH 03, 2020

Filename: C-0710 STORMWATER.dwg
Path: K:\NSVA_TPT\0110614002 - Washington Blvd and Sycamore\CAD\PlumbSheets



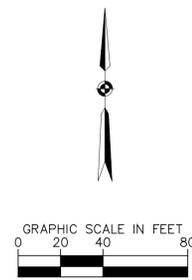
DRAINAGE AREA MAP ZOOM OUT
SCALE 1" = 800'

INSET A - DRAINAGE MAP ZOOM IN



LEGEND

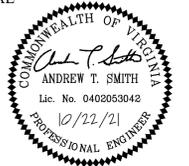
- DRAINAGE AREA BOUNDARY
- FLOW PATH
- STRUCTURE AREA (AC) RUNOFF COEFFICIENT
- DRAINAGE AREA LABEL



DEPARTMENT OF ENVIRONMENTAL SERVICES

Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

SEAL



APPROVALS DATE

<i>James Keller</i>	10/28/21
<i>John Nicks</i>	11/05/2021
<i>John Nicks</i>	12.23.2021
<i>John Nicks</i>	11/05/2021
<i>Dennis M. Leach</i>	12/23/21

REVISIONS DATE

REVISIONS	DATE

Project Name and Location
Washington Boulevard and N. Sycamore Street
POST DEVELOPMENT DRAINAGE DIVIDES

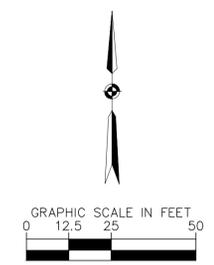
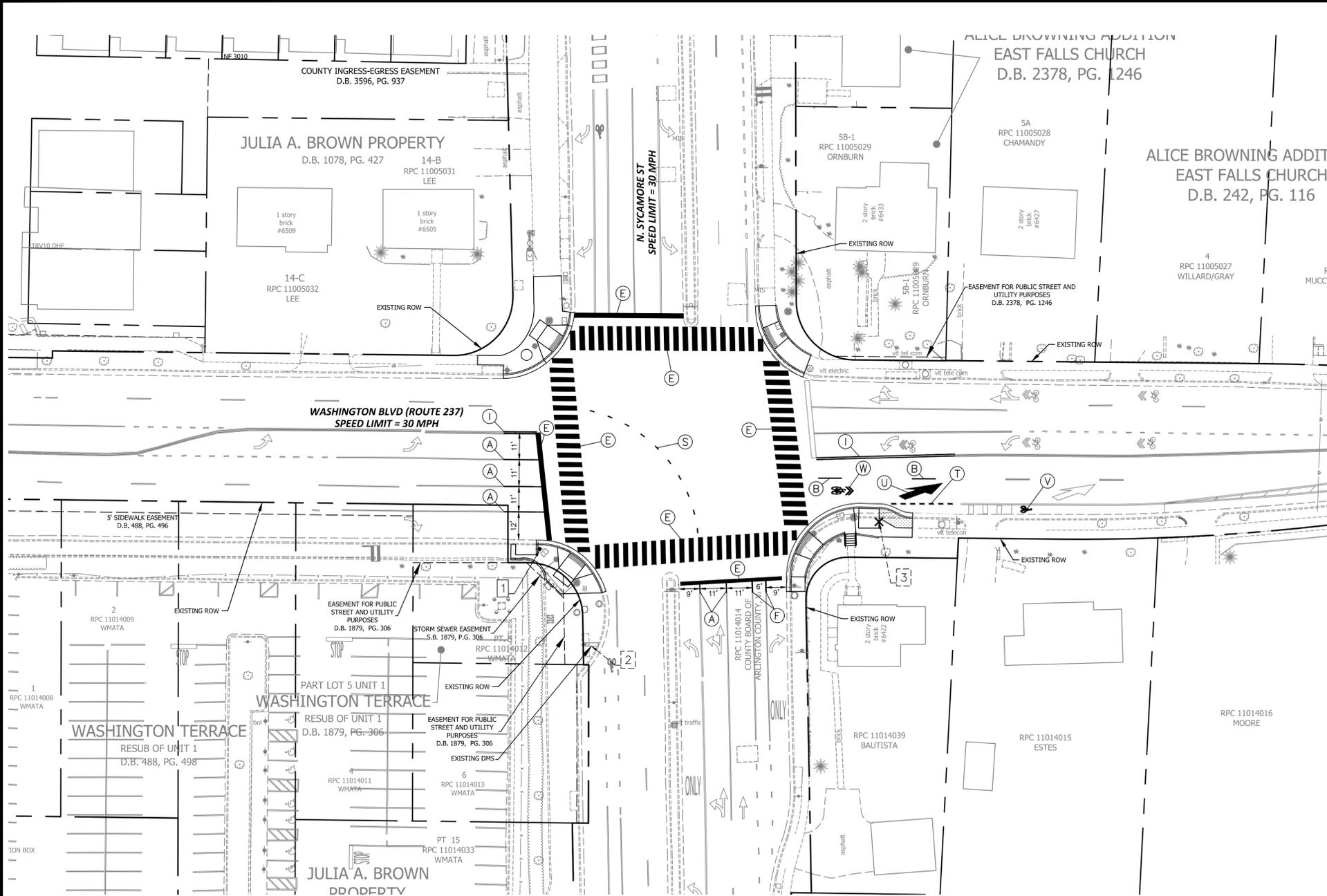
ID #107
ARLINGTON COUNTY, VIRGINIA

Designed: DD
Drawn: NM
Checked: GG
Miss Utility Transmittal #:

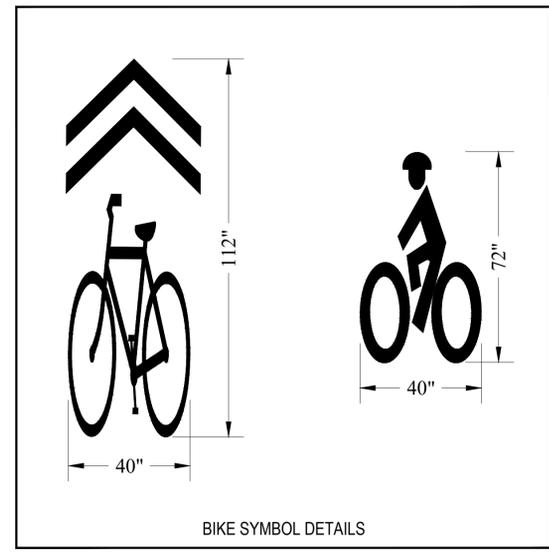
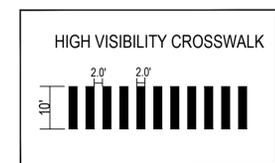
Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 40' VERT. N/A

Sheet
C-0710



- SIGN AND PAVEMENT MARKING NOTES:**
- STREET WIDTH MEASUREMENTS ARE FROM FACE OF CURB TO FACE OF CURB. LANES ARE MEASURED FROM CENTER OF MARKING TO CENTER OF MARKING.
 - CONTACT DENNIS HOWELL OR HIS DESIGNEE AT 703-228-6598 OR (571) 437-1077 TO APPROVE MARKING LAYOUT 48 HRS. PRIOR TO INSTALLATION OF MARKINGS.
 - PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE FOLLOWING AND ANY REVISIONS HERE TO:
 - A) THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - B) ARLINGTON COUNTY MARKING STANDARDS.
 - C) VDOT ROAD AND BRIDGE CONSTRUCTION STANDARDS.
 - ALL MARKINGS SHALL BE THERMOPLASTIC PER ARLINGTON COUNTY MARKING STANDARDS.
 - STOP BARS SHALL BE A MINIMUM OF 4' IN ADVANCE OF A MARKED CROSSWALK. IF THERE IS NO MARKED CROSSWALK, STOP BAR SHALL BE NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTED TRAVELED WAY.
 - CROSSWALKS SHALL BE 10' WIDE UNLESS OTHERWISE NOTED.
 - LEFT TURN ARROWS SHALL BE LOCATED 25' BACK FROM STOP BAR. FOR ADDITIONAL ARROWS FOLLOW COUNTY MARKING STANDARDS.



STANDARD PAVEMENT MARKING LEGEND:

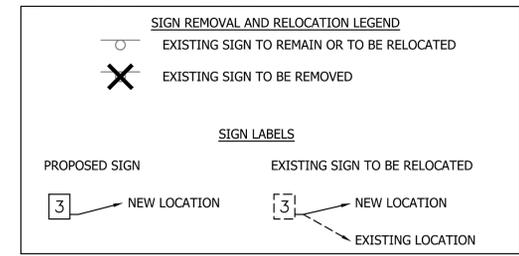
(A) TYPE B CLASS 1.....WHITE 4" WIDTH	PARKING LANES, EDGE LINES, LANE LINES, TURN LANES
(B) TYPE B CLASS 1.....WHITE 4" WIDTH, 10' LONG, 30' SPACING	DASHED LANE LINES
(C) TYPE B CLASS 1.....WHITE 4" WIDTH, 2' LONG, 10' SPACING	LANE TRANSITIONS, TURN LANE SKIPS
(D) TYPE B CLASS 1.....WHITE 18" WIDTH	STOP BARS
(E) TYPE B CLASS 1.....WHITE 24" WIDTH	HIGH VISIBILITY CROSS WALKS, VDOT STOP BARS
(F) TYPE B CLASS 1.....WHITE 6" WIDTH	TURN LANES, TRANSVERSE CROSSWALKS, BIKE LANES
(G) TYPE B CLASS 1.....YELLOW 4" WIDTH, 10' LONG, 30' SPACING	DIVIDED TRAFFIC, TWO WAY TURN LANES
(H) TYPE B CLASS 1.....YELLOW 4" WIDTH	EDGE LINES
(I) TYPE B CLASS 1.....YELLOW 4" WIDTH, DOUBLE LINE, 4" SPACING	CENTERLINES
(J) TYPE B CLASS 1.....WHITE 6" WIDTH, 10' SPACING @45 DEGREE	HATCH LINES, SAFETY ZONES
(K) TYPE B CLASS 1.....WHITE SINGLE ARROW	TURN LANES
(L) TYPE B CLASS 1.....WHITE COMBINATION ARROW	TURN LANES
(M) TYPE B CLASS 1.....WHITE 8" LETTERS	PAVEMENT LETTERS (STOP, YIELD, BUS, ONLY etc.)
(N) TYPE B CLASS 1.....WHITE 6" WIDTH, 2' LONG, 10' SPACING	LANE TRANSITIONS, TURN LANE SKIPS
(O) TYPE B CLASS 1.....WHITE 12" WIDTH, 20' SPACING @45 DEGREE	GORE MARKINGS
(P) TYPE B CLASS 1.....YELLOW 12" WIDTH, 20' SPACING @45 DEGREE	GORE MARKINGS
(Q) TYPE B CLASS 1.....WHITE 6" WIDTH, 2' LONG, 4" SPACING	LANE TRANSITIONS
(R) TYPE B CLASS 1.....WHITE 6" WIDTH, 3' LONG, 9" SPACING	TURN LANES
(S) TYPE B CLASS 1.....WHITE 4" WIDTH, 2' LONG, 6" SPACING	TURN LANE SKIPS
(T) TYPE B CLASS 1.....WHITE 6" WIDTH, 2' LONG, 6" SPACING	BIKE LANE STRIPING
(U) TYPE B CLASS 1.....WHITE LANE REDUCTION ARROW	
(V) TYPE B CLASS 1.....WHITE HELMETED BICYCLIST SYMBOL	
(W) TYPE B CLASS 1.....WHITE SHARED LANE SYMBOL	

SIGN SCHEDULE

SIGN NUMBER	1	2	3
SIGN			
NO.	R10-11a (MOD)	EXISTING DMS FOR I-66 EASTBOUND	EXISTING W4-2
DIMENSION	30" x 48"		

SIGNING AND MARKING LEGEND

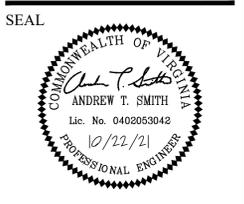
EXISTING		PROPOSED
	BUS STOP	
	FIRE HYDRANT	
	SIGN	
	GANTRY	
	MARKING	



ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES

Signal Systems and ITS
 Traffic Engineering and Operations Bureau
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
 Phone: 703.228.3629
 Fax: 703.228.3606



APPROVALS

	DATE
TRAFFIC SIGNAL ENGINEER	10/28/21
	11/05/2021
TRAFFIC ENGINEERING MANAGER	
	12.23.2021
WATER, SEWER, STREETS BUREAU CHIEF	
	11/05/2021
TE&O BUREAU CHIEF	
	12/23/21
TRANSPORTATION DIRECTOR	

REVISIONS

REVISIONS	DATE

Project Name and Location
Washington Boulevard and N. Sycamore Street
 PAVEMENT MARKING AND SIGNING PLAN
 ID #107
 ARLINGTON COUNTY, VIRGINIA

Designed: AS
 Drawn: LL
 Checked: GG
 Miss Utility Transmittal #:

Plotted: January 05, 2022
 Plotted by: Nicole.McVey

Scale:
 HOR. 1" = 25' VERT. N/A

Sheet **C-0800**

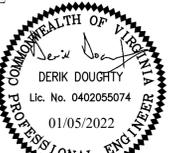
TRANSPORTATION MANAGEMENT PLAN AND SEQUENCE OF CONSTRUCTION (TMP/SOC)



DEPARTMENT OF ENVIRONMENTAL SERVICES

Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

SEAL



APPROVALS DATE

<i>Jessie Kelle</i>	10/28/21
TRAFFIC SIGNAL ENGINEER	
<i>Derik Doughty</i>	11/05/2021
TRAFFIC ENGINEERING MANAGER	
<i>Julie</i>	12.23.2021
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Teo Burell</i>	11/05/2021
TEAO BUREAU CHIEF	
<i>Dennis M. Leach</i>	12/23/21
TRANSPORTATION DIRECTOR	

REVISIONS DATE

Project Name and Location
Washington Boulevard and N. Sycamore Street
TRANSPORTATION MANAGEMENT PLAN
NOTES
ID #107
ARLINGTON COUNTY, VIRGINIA

Designed: DCD
Drawn: TEC
Checked: GG
Miss Utility Transmittal #:

Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 25' VERT. N/A

Sheet
C-0900

TEMPORARY TRAFFIC CONTROL PLAN

1. TMP/SOC TYPE A PROJECT INFORMATION:

- A. IDENTIFY THE PROJECT'S TMP TYPE:
THIS PROJECT'S TMP/SOC PLAN HAS BEEN DESIGNED IN CONFORMANCE WITH A TYPE A TMP/SOC PLAN.
- B. IDENTIFY THE WORK ZONE LOCATION, LENGTH, AND WIDTHS:
THE PROJECT LOCATION IS SHOWN ON THE TITLE SHEET.
THE WORK ZONE AREAS HAVE BEEN DELINEATED AS SHOWN ON THE TEMPORARY TRAFFIC CONTROL SHEETS.
THE WORK ZONE LENGTHS AND WIDTHS VARY BY LOCATION AS SHOWN ON THE TEMPORARY TRAFFIC CONTROL SHEETS.
- C. NOTE THE HOURS THE CONSTRUCTION AREA WILL BE ACTIVE:
CONSTRUCTION AREA SHALL BE CONSIDERED ACTIVE WHEN ANY IMPACT TO TRAFFIC OCCURS (1ST CONE IN ROAD)
CONSTRUCTION AREA HOURS HAVE THE FOLLOWING LIMITATIONS:

DAY TIME	LANE CLOSURES (NON MAJOR ARTERIAL)			
	MONDAY TO THURSDAY	FRIDAY	SATURDAY	SUNDAY
9:30AM to 3:00PM	9:30AM to 2:00PM	*NOT ALLOWED	*NOT ALLOWED	*NOT ALLOWED
NIGHT TIME	*NOT ALLOWED	*NOT ALLOWED	*NOT ALLOWED	*NOT ALLOWED

* NIGHT TIME AND WEEKEND WORK SHALL NOT BE ALLOWED UNLESS APPROVED BY VDOT.
NO LANE CLOSURES WILL BE ALLOWED FROM NOON ON THE DAY BEFORE A HOLIDAY UNTIL NOON ON THE WORKDAY FOLLOWING THE HOLIDAY. HOLIDAYS INCLUDE ALL STATE AND FEDERAL HOLIDAYS.

DESIGNATION OF PEAK HOUR TIMES:
PEAK HOURS ARE 6:00AM THROUGH 9:00AM AND 3:30PM THROUGH 6:30PM.

- D. THE CONSTRUCTION ZONE HAS BEEN SHOWN ON THE TEMPORARY TRAFFIC CONTROL SHEETS FOR POTENTIAL LOCATIONS FOR CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE WITHIN THE RIGHT OF WAY. THE CONTRACTOR IS TO PROVIDE ADEQUATE PROTECTION FOR CONSTRUCTION ELEMENTS WITHIN THE CLEAR ZONE.
- E. THE TMP/SOC PLAN, DURING CONSTRUCTION, SHALL BE IN ACCORDANCE WITH SECTIONS 512, 701, 703 & 704 OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS, DATED 2016; THE VIRGINIA WORK AREA PROTECTION MANUAL DATED AUGUST 2011 AND UPDATED APRIL 2015; THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), DATED 2009; THE VIRGINIA SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, DATED 2011; AND IIM-LD-241.7 OF THE INSTRUCTIONAL AND INFORMATIONAL MEMORANDA.
- F. NOTE ANY EXISTING ENTRANCES, EXISTING INTERSECTIONS, OR EXISTING PEDESTRIAN ACCESS POINTS THAT WILL BE AFFECTED BY THE CONSTRUCTION AREA OR BY THE TRAFFIC CONTROL DEVICES:

EXISTING ENTRANCES:
THERE ARE TWELVE (12) EXISTING ENTRANCES WITHIN THE PROJECT LIMITS. ALL ENTRANCES ARE TO REMAIN OPEN AND FUNCTIONAL DURING CONSTRUCTION. IF DRIVEWAY RECONSTRUCTION IS NECESSARY, THE CONTRACTOR IS TO WORK WITH THE PROPERTY OWNER TO ESTABLISH A MUTUALLY AGREEABLE SCHEDULE TO CLOSE THE ENTRANCE.

EXISTING INTERSECTIONS:
THE N. SYCAMORE ST. AND WASHINGTON BOULEVARD (ROUTE 27) INTERSECTION IS AT APPROXIMATE WASHINGTON BOULEVARD STATION 142+40. ALL EXISTING INTERSECTIONS ARE TO REMAIN OPEN AND FUNCTIONAL DURING CONSTRUCTION.

EXISTING PEDESTRIAN ACCESS POINTS:
THERE ARE FOUR (4) EXISTING PEDESTRIAN ACCESS POINTS WITHIN THE PROJECT LIMITS. THESE INCLUDE THE NORTHWEST, SOUTHWEST, NORTHEAST, AND SOUTHEAST CORNERS OF THE N. SYCAMORE STREET AND WASHINGTON BOULEVARD (ROUTE 27) INTERSECTION. PEDESTRIANS ARE TO BE DIVERTED AWAY FROM THE CONSTRUCTION ZONE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PEDESTRIAN CIRCULATION AT ALL TIMES. SEE CONSTRUCTION NARRATIVE FOR DETAILS.

EXISTING BUS STOPS:
THERE ARE TWO EXISTING BUS STOPS WITHIN THE PROJECT LIMITS LOCATED ALONG WASHINGTON BOULEVARD, ONE WEST OF THE INTERSECTION WITH N. SYCAMORE ST. AND ONE EAST OF IT. THESE BUS STOPS ARE TO REMAIN OPEN AND FUNCTIONAL DURING CONSTRUCTION.

- G. IDENTIFY THE MAJOR TYPES OF TRAVELERS:
THE TRAFFIC ON THE ROADWAY CONSISTS PRIMARILY OF COMMUTER TRAFFIC WITH TRANSIT BUSES, BIKES, AND PEDESTRIANS. THE SURROUNDING AREA IS MOSTLY RESIDENTIAL WITH A METRO STATION IMMEDIATELY SOUTHWEST OF THE PROJECT AREA.
- H. THE CONTRACTOR SHALL:

DESIGNATE A PERSON ASSIGNED TO THE PROJECT WHO WILL HAVE THE PRIMARY RESPONSIBILITY, WITH SUFFICIENT AUTHORITY, FOR IMPLEMENTING THE TMP/SOC AND OTHER SAFETY AND MOBILITY ASPECTS OF THE PERMIT WORK. THIS PERSON SHALL COORDINATE WITH THE ARLINGTON COUNTY CONSTRUCTION INSPECTOR FOR THE DURATION OF CONSTRUCTION.

ENSURE THAT PERSONNEL ASSIGNED TO THE PROJECT ARE TRAINED IN TRAFFIC CONTROL TO A LEVEL COMMENSURATE WITH THEIR RESPONSIBILITIES IN ACCORDANCE WITH VDOT'S WORK ZONE TRAFFIC CONTROL TRAINING GUIDELINES.

INFORM THE ENGINEER OF ANY WORK REQUIRING LANE SHIFTS, LANE CLOSURES, AND/OR PHASE CHANGES A MINIMUM OF TWO WORKING DAYS PRIOR TO IMPLEMENTING THIS ACTIVITY.

PERFORM REVIEWS OF THE CONSTRUCTION AREA TO ENSURE COMPLIANCE WITH CONTRACT DOCUMENTS AT REGULARLY SCHEDULED INTERVALS AT THE DIRECTION OF THE ENGINEER. CONTRACTOR SHALL MAINTAIN AN APPROVED COPY OF THE TEMPORARY TRAFFIC CONTROL PLAN AT THE WORK SITE AT ALL TIMES.

COORDINATE WITH ARLINGTON COUNTY POLICE DEPARTMENT AND ARLINGTON COUNTY COUNTY FIRE/RESCUE DEPARTMENT FOR ANY LANE CLOSURES AND ANY DETOURS OF ANY NATURE.

SCHEDULE ALL PHASES OF CONSTRUCTION IN SUCH A MANNER THAT WATER, SANITARY SEWER, CABLE, FIBER CABLE/OPTIC CABLE, ANY OVERHANGING UTILITIES, AND ANY UNDERGROUND UTILITIES SERVICES WILL NOT BE INTERRUPTED.

- 2. THIS TMP/SOC PLAN IS INTENDED AS A GUIDE. IT IS NOT TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN THE CONSTRUCTION OF EACH PHASE, BUT ONLY TO SHOW THE GENERAL HANDLING OF EXISTING TRAFFIC. IF THE CONTRACTOR TO DEVIATE FROM THE APPROVED TMP, A NEW OR REVISED TMP MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- 3. CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC IN EACH DIRECTION DURING CONSTRUCTION OF THIS PROJECT AND PROVIDE A MINIMUM OF 11 FOOT WIDE LANES AT ALL TIMES DURING CONSTRUCTION, UNLESS APPROVED BY THE ENGINEER.
- 4. ALL AREAS EXCAVATED BELOW THE EXISTING PAVEMENT SURFACE AND WITHIN THE CLEAR ZONE AT THE CONCLUSION OF EACH WORKDAY, SHALL BE BACKFILLED TO FORM AN APPROXIMATE 6:1 WEDGE AGAINST THE EXISTING PAVEMENT OR NEWLY CONSTRUCTED PAVEMENT SURFACE FOR THE SAFETY AND PROTECTION OF VEHICULAR TRAFFIC.

- 5. EACH PHASE OF CONSTRUCTION SHALL BE COMPLETED TO THE INSTALLATION OF INTERMEDIATE COURSE ASPHALT PRIOR TO THE START OF THE NEXT PHASE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 6. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FOR THE DURATION OF THE PROJECT. CONTRACTOR SHALL ADD ANY ADDITIONAL TEMPORARY MEASURES NECESSARY TO FACILITATE PROPER, POSITIVE DRAINAGE FOR THE DURATION OF CONSTRUCTION. THE COST SHALL BE INCLUDED IN THE COST OF OTHER ITEMS.
- 7. UNLESS SPECIFIED ON THE PLANS, ALL EXISTING TURN LANES SHALL BE MAINTAINED AT ALL TIMES FOR THE DURATION OF CONSTRUCTION.
- 8. WHERE GROUP 2 CHANNELIZING DEVICES ARE USED TO SEPARATE THE CONSTRUCTION AREA AND TRAFFIC, A MINIMUM CLEAR ZONE AREA AS DEFINED IN THE VIRGINIA WORK AREA PROTECTION MANUAL (VWAPM) IS TO BE MAINTAINED.
- 9. THE CONTRACTOR IS TO COORDINATE WITH ARLINGTON COUNTY FOR LOCATION(S) OF THE CONSTRUCTION STAGING AREA. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AS NECESSARY.
- 10. IMPLEMENTING THE TRANSPORTATION MANAGEMENT PLAN DURING THE FIRST DAY OF THE NEW WORK ZONE TRAFFIC PATTERN, THE PROJECT CONSTRUCTION MANAGER AND PROJECT CONSTRUCTION INSPECTOR SHALL INSPECT THE WORK ZONE TO ENSURE COMPLIANCE WITH THE TMP. ON THE THIRD TO FIFTH DAY OF IMPLEMENTATION OF THE TMP'S NEW WORK ZONE TRAFFIC PATTERN, THE CONSTRUCTION INSPECTOR SHALL CONDUCT AN ON-SITE REVIEW OF THE WORK ZONE'S PERFORMANCE IN COORDINATION WITH VDOT AND RECOMMEND TO THE CONTRACTOR ANY REQUIRED CHANGES TO THE TMP TO ENHANCE THE WORK ZONE'S SAFETY AND MOBILITY. ALL SUCH CHANGES SHALL BE DOCUMENTED. AN ON-SITE REVIEW OF THE PROJECT'S WORK ZONE TRAFFIC CONTROL BY THE COUNTY'S CONSTRUCTION INSPECTOR AND THE CONTRACTOR SHALL BE CONDUCTED (WITH COORDINATION FROM VDOT) WITHIN 48 HOURS OF ANY FATAL ACCIDENT/CRASH WITHIN THE WORK ZONE.
- 11. EVALUATION OF THE TRANSPORTATION MANAGEMENT PLAN A PERFORMANCE ASSESSMENT OF THE TMP INCLUDING AREA-WIDE IMPACTS ON ADJACENT ROADWAYS SHALL BE PERFORMED BY ARLINGTON COUNTY WITH COORDINATION FROM THE ENGINEER DURING CONSTRUCTION. AS CIRCUMSTANCES DICTATE, A REVIEW OF THE OVERALL EFFECTIVENESS OF THE PROJECT'S TMP SHALL BE COMPLETED DURING THE POST CONSTRUCTION MEETING AND INCLUDED WITH THE POST CONSTRUCTION REPORT. A COPY OF THE SPECIFIC INFORMATION ON THE EFFECTIVENESS OF THE TMP WILL BE FORWARDED TO ARLINGTON COUNTY FOR REVIEW. A COPY OF THE TMP INTERIM/POST CONSTRUCTION REPORT FORM CAN BE OBTAINED FROM ARLINGTON COUNTY.

- 12. PUBLIC COMMUNICATIONS PLAN THE CONTRACTOR SHALL BE RESPONSIBLE FOR:
 - A. NOTIFYING THE PROJECT MANAGER AND CONSTRUCTION INSPECTOR TWO WEEKS IN ADVANCE OF ANY SCHEDULED WORK PLANS AND TRAFFIC DELAYS.
 - B. NOTIFYING THE PROJECT MANAGER, CONSTRUCTION INSPECTOR, AND CORRESPONDING ENGINEER OF ANY UNSCHEDULED TRAFFIC DELAYS

- 14. TRANSPORTATION OPERATIONS THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND PROVIDING THE FOLLOWING:
 - A. NOTIFY THE REGIONAL TRANSPORTATION OPERATIONS CENTER (TOC) ONE WEEK IN ADVANCE TO PLACE LANE CLOSURE INFORMATION ON THE 511 SYSTEM AND VA-TRAFFIC.
 - B. POST A LIST OF LOCAL EMERGENCY RESPONSE AGENCIES INSIDE THE PROJECT'S CONSTRUCTION OFFICE/TRAILER.
 - C. IMMEDIATELY REPORT ANY TRAFFIC INCIDENTS THAT MAY OCCUR IN THE WORK ZONE.
 - D. NOTIFY THE PROJECT CONSTRUCTION INSPECTOR AND CORRESPONDING ENGINEER OF ANY NEW INCIDENTS AND EXPECTED TRAFFIC DELAYS.
 - E. WITHIN 24 HOURS OF ANY INCIDENTS WITHIN THE CONSTRUCTION WORK ZONE, A REVIEW OF THE TRAFFIC CONTROLS SHALL BE COMPLETED AND NECESSARY ADJUSTMENTS MADE TO REDUCE THE FREQUENCY AND SEVERITY OF ANY FUTURE INCIDENTS.

CONTACT NUMBERS:

COUNTY PROJECT MANAGER	ANUP KAFLE (703) 228-7050
COUNTY CONSTRUCTION MANAGER	TBD
COUNTY CONSTRUCTION INSPECTOR	TBD
EMERGENCY CALL	911
NON-EMERGENCY NUMBERS:	
ARLINGTON COUNTY POLICE	(703) 558-2222
ARLINGTON COUNTY FIRE & RESCUE	(703) 558-3362

GENERAL CONSTRUCTION NOTES AND SEQUENCE OF CONSTRUCTION

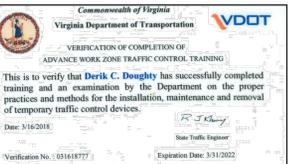
- 1. THE CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS DURING BOTH WORK AND NON-WORK HOURS TO ENSURE THE PROTECTION AND SAFETY OF THE ADJACENT PROPERTY OWNERS, PEDESTRIANS, VEHICULAR TRAFFIC, AND THE GENERAL PUBLIC FROM ANY CONSTRUCTION RELATED ACTIVITY, CONSTRUCTION EQUIPMENT, AND THE CONSTRUCTION SITE ITSELF.
- 2. TEMPORARY CLOSURES OF PEDESTRIAN ACCESS SHALL BE LIMITED AND ADMINISTERED AS DIRECTED BY THE ENGINEER.
- 3. NO LANE CLOSURES WILL BE ALLOWED OUTSIDE OF THE CONSTRUCTION AREA HOURS, UNLESS APPROVED BY THE ENGINEER.
- 4. BUFFER SPACES SHOWN ON THE TEMPORARY TRAFFIC CONTROL SHEETS ARE NOT TO SCALE. SEE THE VIRGINIA WORK AREA PROTECTION MANUAL FOR BUFFER PLACEMENT.
- 5. CONTRACTOR SHALL COORDINATE ALL BUS STOP MODIFICATIONS WITH ARLINGTON COUNTY BEFORE CONSTRUCTION.

UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER THE CONTRACTOR SHALL PLAN AND PROSECUTE THE WORK IN ACCORDANCE WITH THE FOLLOWING SEQUENCE OF CONSTRUCTION:

- PHASE 1:
 - 1. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC-53.0.
 - 2. CONSTRUCT PROPOSED IMPROVEMENTS WITHIN THE CONSTRUCTION ZONE SHOWN ON SHEET C-0902 IN ACCORDANCE WITH TTC-26.2, TTC-27.2, TTC-29.2, TTC-35.1, AND TTC-36.2.
 - 3. CONSTRUCTION SHOULD BE PHASED ON THE FOUR CORNERS OF THE INTERSECTION TO ALLOW ADEQUATE PEDESTRIAN ACCESS IN ACCORDANCE WITH TTC-35.0 AND TTC-36.1. PEDESTRIANS SHOULD BE DIVERTED AROUND THE CONSTRUCTION ZONE AT THE NEAREST CROSSING LOCATION. AN ADEQUATE PEDESTRIAN DIVERSION SHOULD BE IMPLEMENTED WHERE A DETOUR IS NOT FEASIBLE AT THE CONCLUSION OF WORK EACH DAY. CONSTRUCTION ACTIVITIES SHALL NOT CLOSE MORE THAN ONE CROSSWALK AT ANY TIME. CONTRACTOR SHALL PROVIDE BICYCLE DETOUR WHEN BIKE LANES ARE CLOSED IN ACCORDANCE WITH VDOT WORK ZONE PEDESTRIAN AND BICYCLE GUIDANCE (MAY 1, 2016) FOR FURTHER INFORMATION. ALL SIGNAGE RELATED TO THIS DETOUR TO BE INSTALLED PER VAWAPM TTC-53.0.
 - 5. CONSTRUCTION ACTIVITIES IN THIS PHASE INCLUDE: SAW CUT EXISTING PAVEMENT, CONSTRUCTION OF PROPOSED CURB AND GUTTER AND CURB RAMPS ON THE CORNERS, CONSTRUCTION OF SIDEWALK, GRADING, MODIFICATION OF STORM STRUCTURES, INSTALLATION OF TRAFFIC AND PEDESTRIAN SIGNALS. THE PROPOSED SIGNAL SHALL BE FULLY CONSTRUCTED AND OPERATIONAL BEFORE CONSTRUCTION OF PHASE 2.

- PHASE 2 (NOT SHOWN):
 - 1. MILL AND OVERLAY AREAS SHOWN ON THE PLANS IN ACCORDANCE WITH TTC-57.1.
 - 2. INSTALL ALL PERMANENT PAVEMENT MARKINGS AND SIGNS AS SHOWN ON THE SIGNING AND STRIPING PLAN.
 - 3. REMOVE ALL TRAFFIC CONTROL SIGNS AND DEVICES.

NOTE:
THE DESIGNER, DERIK DOUGHTY, P.E. HAS COMPLETED THE VDOT ADVANCED WORK ZONE TRAINING ON 3/16/2018. VERIFICATION NUMBER 031618777. EXPIRATION DATE 3/31/2022.



REVISED: MARCH 03, 2020
Filename: C-900 MAINTENANCE OF TRAFFIC.dwg
Path: K:\NVA_TPT0110614002 - Washington Blvd and Sycamore CAD\Plan\Sheets

Page 611-60 September 2019 Page 611-61 September 2019 Page 611-62 September 2019 Page 611-63 September 2019 Page 611-64 September 2019 Page 611-65 September 2019 Page 611-66 September 2019 Page 611-67 September 2019 Page 611-68 September 2019 Page 611-69 September 2019 Page 611-70 September 2019 Page 611-71 September 2019 Page 611-72 September 2019

Typical Traffic Control Lane Closure Operation - Near Side of an Intersection (Figure TTC-26.2) NOTES

Guidance:

- Sign spacing distance should be 150'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph.

Standard:

- On divided highways having a median wider than 8', right and left sign assemblies shall be required.
- Taper length (L) shall be as follows:

Speed Limit (mph)	Lane Width (Feet)				Remarks
	9	10	11	12	
25	35	105	115	125	L=PW/10
30	135	150	165	180	L=PW/10
35	185	205	225	245	L=PW/10
40	240	270	295	320	L=PW/10
45	405	450	495	540	L=PW/10

Channelizing device spacing shall be as follows:

Location Spacing	Speed Limit (mph)	Location Spacing	Speed Limit (mph)					
0-35'	36+	0-35'	36+					
Transition	20'	40'	Traveledway	42'	80'	Construction Access	80'	120'

Guidance:

- If road permits, a shadow vehicle with at least one rotating, oscillating, or amber strobe light should be parked 80'-120' in advance of the first work crew.

Standard:

- If the posted speed limit is 45 mph or greater, the shadow vehicle shall have a truck-mounted attenuator.
- For emergency situations (any non-planned operation) of 30 minutes or less duration, two rotating amber lights or two high intensity amber flashing or oscillating lights mounted on the vehicle and visible for 360° shall be required in addition to the channelizing devices shown around the vehicle. Also, vehicle hazard warning signals shall be used.

Guidance:

- If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36.

Standard:

- If the left turn lane is closed a NO LEFT TURN (Symbol) (R3-2) shall be used.

Option:

- PTRS may be used as shown in Figures TTC-17 and in accordance with Section 6F-99.
- The supplemental PTRS may be eliminated.

1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

September 2019 Page 611-61 September 2019 Page 611-62 September 2019 Page 611-63 September 2019 Page 611-64 September 2019 Page 611-65 September 2019 Page 611-66 September 2019 Page 611-67 September 2019 Page 611-68 September 2019 Page 611-69 September 2019 Page 611-70 September 2019 Page 611-71 September 2019 Page 611-72 September 2019

Lane Closure Operation - Near Side of an Intersection (Figure TTC-26.2)

Lane Closure Operation - Far Side of an Intersection (Figure TTC-27.2)

Turn Lane Closure Operation (Figure TTC-29.2)

Sidewalk Closure and Bypass Sidewalk Operation (Figure TTC-35.1)

Crosswalk Closure and Pedestrian Detour Operation (Figure TTC-36.2)

Signaling for Project Limits (Figure TTC-53.0)

1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES

Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

SEAL

DERIK DOUGHTY
Lic. No. 0402055074
01/05/2022
PROFESSIONAL ENGINEER

APPROVALS

NAME	DATE
10/28/21	
11/05/2021	
12.23.2021	
11/05/2021	
12/23/21	

REVISIONS

NO.	DATE	DESCRIPTION
1	4/1/2015	
2	9/1/2019	

Project Name and Location
Washington Boulevard and N. Sycamore Street
TRANSPORTATION MANAGEMENT PLAN
DETAILS

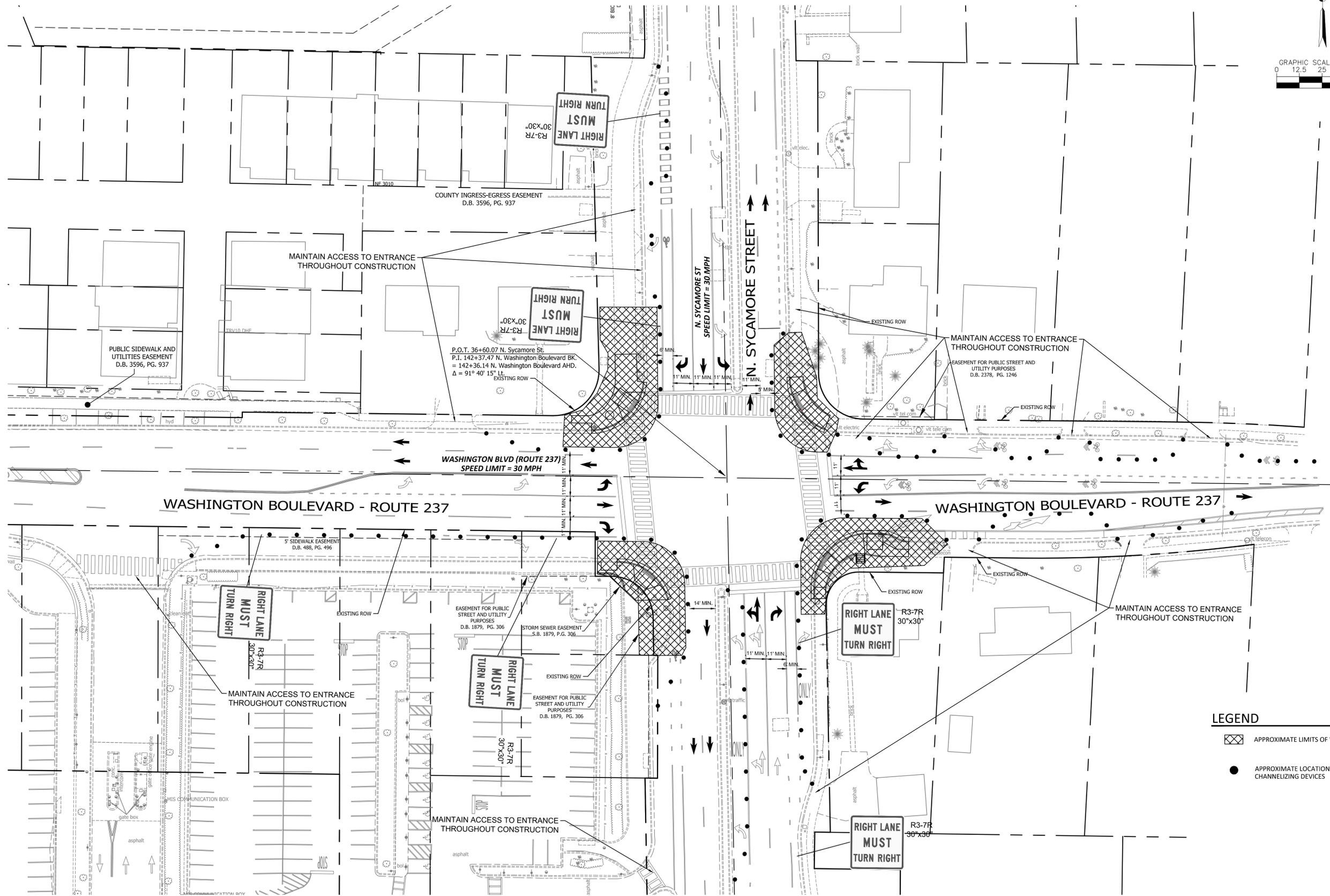
Designed: DCD
Drawn: TEC
Checked: GG
Miss Utility Transmittal #:

Plotted: January 05, 2022
Plotted by: Nicole.McVey

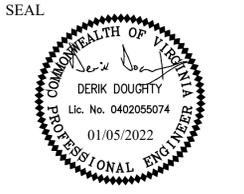
Scale:
HOR. 1" = 25' VERT. N/A

Sheet
C-0901

ARLINGTON COUNTY, VIRGINIA
ID #107



DEPARTMENT OF ENVIRONMENTAL SERVICES
Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606



APPROVALS	DATE
<i>[Signature]</i>	10/28/21
<i>[Signature]</i>	11/05/2021
<i>[Signature]</i>	12.23.2021
<i>[Signature]</i>	11/05/2021
<i>[Signature]</i>	12/23/21

REVISIONS	DATE

Project Name and Location
Washington Boulevard and N. Sycamore Street
MAINTENANCE OF TRAFFIC
ID #107
ARLINGTON COUNTY, VIRGINIA

Designed: DCD
Drawn: TC
Checked: GG
Miss Utility Transmittal #:

Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 25' VERT. N/A

Sheet
C-0902

General Signal Notes

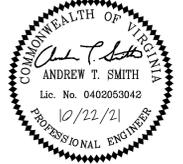
1. ALL WORK FOR TRAFFIC SIGNALS, TRAFFIC SIGNS, AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE LATEST EDITION OF THE ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS, 2016 VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, 2016 VDOT ROAD AND BRIDGE STANDARDS, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2019 VIRGINIA WORK AREA PRODUCTION MANUAL, AND SPECIAL PROVISIONS IN EFFECT AT THE TIME OF ADVERTISEMENT.
2. FIVE WORKING DAYS PRIOR TO COMMENCING SIGNAL INSTALLATION/MODIFICATION WORK AT ANY LOCATION IN ARLINGTON COUNTY, VIRGINIA, SIGNAL CONTRACTORS MUST NOTIFY THE COUNTY ENGINEER IN WRITING WITH THE NAME, DAYTIME PHONE NUMBER, AND EMERGENCY PHONE NUMBERS OF THE CONTRACTOR. THIS NOTIFICATION IS TO INCLUDE LOCATION, ROUTE NUMBERS, TYPE, AND DETAILS OF CONSTRUCTION AND SCHEDULE OF WORK.
3. THE TRAFFIC SIGNAL CONSTRUCTION SHALL NOT BEGIN WITHOUT PRIOR NOTIFICATION AND APPROVAL FROM ARLINGTON COUNTY.
4. THE COUNTY ENGINEER, PRIOR TO CONSTRUCTION, SHALL VERIFY POLE(S) AND CONTROLLER CABINET LOCATIONS.
5. ALL CATALOG CUTS, POLE CALCULATIONS, FOUNDATION DESIGNS, SHOP DRAWINGS, ETC., SHALL BE SUBMITTED TO, AND APPROVED BY, ARLINGTON COUNTY PRIOR TO CONSTRUCTION.
6. OPERATION OF THE SIGNALIZED INTERSECTION IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE TRAFFIC SIGNAL IS ACCEPTED BY ARLINGTON COUNTY.
7. ANY NOTES NOT MENTIONED IN THE NOTES SECTION OF THIS SIGNAL PLAN WILL REVERT TO THE ARLINGTON COUNTY STANDARDS.
8. CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL COMMUNICATION THROUGHOUT THE PROJECT.
9. ALL NEW CONTROLLER CABINETS MUST BE FURNISHED WITH A BACKUP POWER BATTERY.
10. THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 FOR MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (i.e. WATER, SEWER, GAS, TELEPHONE, ELECTRIC, AND CABLE TV) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO IDENTIFY AND PROTECT ALL OTHER UTILITY LINES FOUND IN THE WORK SITE AREA BELONGING TO OTHER OWNERS THAT ARE NOT MEMBERS OF "MISS UTILITY." PRIVATE UTILITY LATERALS ARE NOT LOCATED. CONTRACTOR SHALL VERIFY THE LOCATION OF UTILITY LATERALS AND IS RESPONSIBLE FOR ANY DAMAGE TO PRIVATE UTILITY LATERALS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE COUNTY PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WITH MATCHING MATERIALS ANY PAVEMENT, PAVEMENT MARKINGS, CURB AND GUTTER, SIDEWALK, ETC. THAT ARE DAMAGED DURING CONSTRUCTION.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE SIGNING, DELINEATION, PAVEMENT MARKINGS AND ANY OTHER TRAFFIC CONTROL DEVICES NECESSARY TO PERFORM THE WORK IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL IMMEDIATELY REMOVE ALL TEMPORARY DEVICES.
13. THE CONTRACTOR SHALL SUBMIT "AS-BUILT" DRAWINGS TO ARLINGTON COUNTY UPON JOB COMPLETION AND FINAL INSPECTION.
14. EXISTING CONTROLLER AND CABINETS SPECIFIED TO BE REMOVED SHALL BE RETURNED TO ARLINGTON COUNTY.
15. CCTV LOCATIONS AND QUANTITIES ARE FOR PLANNING PURPOSES ONLY. THE FINAL LOCATIONS SHALL BE FIELD LOCATED.
16. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES ON ADJUSTMENT OF OVERHEAD CABLES TO INSTALL MAST ARM SIGNAL POLES.



DEPARTMENT OF ENVIRONMENTAL SERVICES

Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

SEAL



APPROVALS DATE

<i>[Signature]</i>	10/28/21
TRAFFIC SIGNAL ENGINEER	
<i>[Signature]</i>	11/05/2021
TRAFFIC ENGINEERING MANAGER	
<i>[Signature]</i>	12.23.2021
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	11/05/2021
TE&O BUREAU CHIEF	
<i>[Signature]</i>	12/23/21
TRANSPORTATION DIRECTOR	

REVISIONS DATE

REVISIONS	DATE

Project Name and Location
Washington Boulevard and N. Sycamore Street
 SIGNAL NOTES
 ID #107
 ARLINGTON COUNTY, VIRGINIA

Designed: AS
Drawn: LL
Checked: GG
Miss Utility Transmittal #:

Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. N/A VERT. N/A

Sheet
C-1000

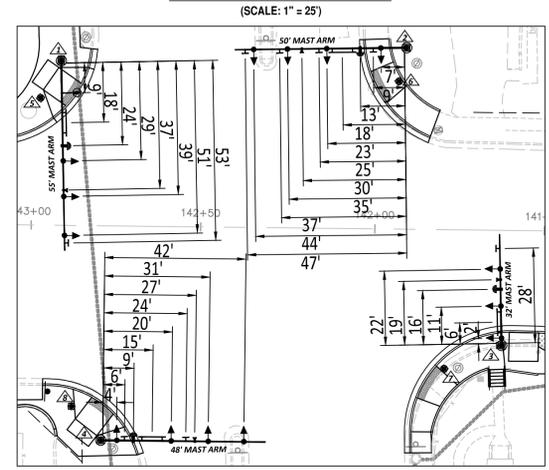
File name: C-1100 TRAFFIC SIGNAL PLAN.dwg
 Path: K:\NVA_TPT\110614002 - Washington Blvd and Sycamore Blvd and SycamoreCAD\Plan\Sheet

CONDUIT & CABLE RUNS

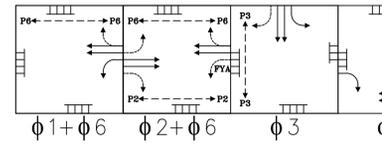
- A** 2-3" CONDUIT (TRENCHED) PVC
1-14/7c SIGNAL HEADS 31, 32, 33, 34
1-14/7c PEDESTRIAN SIGNAL P32
1-14/3c PEDESTRIAN PUSH BUTTON PB32
1-THERMAL DETECTION LEAD-IN CABLE VD3
1-12/2c CABLE FOR LUMINAIRE SL4
2-#6 BARE COPPER GROUNDING WIRE
- B** 1-2" CONDUIT (TRENCHED) PVC
1-OPTICOM CABLE PE3
1-#6 BARE COPPER GROUNDING WIRE
- C** 1-3" CONDUIT (TRENCHED) PVC
1-14/7c PEDESTRIAN SIGNAL P21
1-14/3c PEDESTRIAN PUSH BUTTON PB21
1-#6 BARE COPPER GROUNDING WIRE
- D** 1-4" CONDUIT (BORED) HDPE
1-14/7c SIGNAL HEADS 31, 32, 33, 34
2-14/7c PEDESTRIAN SIGNALS P21, P32
2-14/3c PEDESTRIAN PUSH BUTTONS PB21, PB32
1-THERMAL DETECTION LEAD-IN CABLE VD3
1-12/2c CABLE FOR LUMINAIRE SL4
1-#6 BARE COPPER GROUNDING WIRE
- E** 1-2" CONDUIT (BORED) HDPE
1-OPTICOM CABLE PE3
1-#6 BARE COPPER GROUNDING WIRE
- F** 1-3" CONDUIT (TRENCHED) PVC
1-14/7c PEDESTRIAN SIGNAL P62
1-14/3c PEDESTRIAN PUSH BUTTON PB62
1-#6 BARE COPPER GROUNDING WIRE
- G** 2-3" CONDUIT (TRENCHED) PVC
2-14/7c SIGNAL HEADS 11, 21, 22, 23, 31, 32, 33, 34, 41, 42, 43, 44, 61, 62
1-14/7c PEDESTRIAN SIGNAL P31
1-14/3c PEDESTRIAN PUSH BUTTON PB31
1-THERMAL DETECTION LEAD-IN CABLE VD6
1-12/2c CABLE FOR LUMINAIRE SL1
1-CCTV LEAD-IN CABLE
2-#6 BARE COPPER GROUNDING WIRE
- H** 1-2" CONDUIT (TRENCHED) PVC
1-OPTICOM CABLE PE2
1-#6 BARE COPPER GROUNDING WIRE
- I** 1-3" CONDUIT (TRENCHED) PVC
2-14/7c SIGNAL HEADS 21, 22, 23
2-14/3c PEDESTRIAN SIGNALS P22, P41
2-14/3c PEDESTRIAN PUSH BUTTONS PB22, PB41
1-THERMAL DETECTION LEAD-IN CABLE VD2
1-12/2c CABLE FOR LUMINAIRE SL3
1-#6 BARE COPPER GROUNDING WIRE
- J** 1-2" CONDUIT (BORED) HDPE
1-OPTICOM CABLE PE2
1-#6 BARE COPPER GROUNDING WIRE
- K** 1-4" CONDUIT (BORED) HDPE
3-14/7c SIGNAL HEADS 21, 22, 23, 41, 42, 43, 44
4-14/7c PEDESTRIAN SIGNALS P22, P41, P42, P61
4-14/3c PEDESTRIAN PUSH BUTTONS PB22, PB41, PB42, PB61
2-THERMAL DETECTION LEAD-IN CABLES VD2, VD4
2-12/2c CABLE FOR LUMINAIRE SL2, SL3
1-#6 BARE COPPER GROUNDING WIRE
- L** 3-3" CONDUIT (TRENCHED) PVC
6-14/7c SIGNAL HEADS 11, 21, 22, 23, 31, 32, 33, 34, 41, 42, 43, 44, 61, 62
8-14/7c PEDESTRIAN SIGNALS P21, P22, P31, P32, P41, P42, P61, P62
8-14/3c PEDESTRIAN PUSH BUTTONS PB21, PB22, PB31, PB32, PB41, PB42, PB61, PB62
4-THERMAL DETECTION LEAD-IN CABLES VD2, VD3, VD4, VD6
1-CCTV LEAD-IN CABLE
3-#6 BARE COPPER GROUNDING WIRE
- M** 1-2" CONDUIT (TRENCHED) METAL
1-#6/4C AWG FOR ELECTRICAL SERVICE
2-12/2C CABLES
- N** 1-2" CONDUIT (TRENCHED) METAL
1-#6/4C AWG FOR ELECTRICAL SERVICE
2-12/2C CABLES
- O** 1-3" CONDUIT (TRENCHED) PVC
4-12/2c CABLE FOR LUMINAIRE SL1,SL2,SL3,SL4
1-#6 BARE COPPER GROUNDING WIRE

- I** 1-3" CONDUIT (TRENCHED) PVC
2-14/7c PEDESTRIAN SIGNALS P42, P61
2-14/3c PEDESTRIAN PUSH BUTTONS PB42, PB61
1-#6 BARE COPPER GROUNDING WIRE
- J** 2-3" CONDUIT (TRENCHED) PVC
1-14/7c SIGNAL HEADS 41, 42, 43, 44
1-THERMAL DETECTION LEAD-IN CABLE VD4
1-12/2c CABLE FOR LUMINAIRE SL2
2-#6 BARE COPPER GROUNDING WIRE
- K** 1-2" CONDUIT (TRENCHED) PVC
1-OPTICOM CABLE PE4
1-#6 BARE COPPER GROUNDING WIRE
- L** 1-4" CONDUIT (BORED) HDPE
3-14/7c SIGNAL HEADS 21, 22, 23, 41, 42, 43, 44
4-14/7c PEDESTRIAN SIGNALS P22, P41, P42, P61
4-14/3c PEDESTRIAN PUSH BUTTONS PB22, PB41, PB42, PB61
2-THERMAL DETECTION LEAD-IN CABLES VD2, VD4
2-12/2c CABLE FOR LUMINAIRE SL2, SL3
1-#6 BARE COPPER GROUNDING WIRE
- M** 1-2" CONDUIT (BORED) HDPE
2-OPTICOM CABLES PE2, PE4
1-#6 BARE COPPER GROUNDING WIRE
- N** 3-3" CONDUIT (TRENCHED) PVC
6-14/7c SIGNAL HEADS 11, 21, 22, 23, 31, 32, 33, 34, 41, 42, 43, 44, 61, 62
8-14/7c PEDESTRIAN SIGNALS P21, P22, P31, P32, P41, P42, P61, P62
8-14/3c PEDESTRIAN PUSH BUTTONS PB21, PB22, PB31, PB32, PB41, PB42, PB61, PB62
4-THERMAL DETECTION LEAD-IN CABLES VD2, VD3, VD4, VD6
1-CCTV LEAD-IN CABLE
3-#6 BARE COPPER GROUNDING WIRE
- O** 1-3" CONDUIT (TRENCHED) PVC
4-OPTICOM CABLES PE2, PE3, PE4, PE6
1-#6 BARE COPPER GROUNDING WIRE

POLE LOCATION DETAIL



EXISTING/PROPOSED PHASING DIAGRAM



COLOR SEQUENCE CHART

PHASE	1	2	3	4	6	1+6	2+6	FLASH
SIGNAL	R/W	R/W	R/W	R/W	R/W	R/W	R/W	
11	<G				<G	<Y	<R	
21, 22		G				G	Y	
23			G				Y	
31			<G				<R	
32, 33, 34				G			R	
41			<G				<R	
42			<G/G				R	
43, 44				G			R	
61, 62				G	G	G	Y	
P21, P22		W*				W*	DARK	
P31, P32			W*				DARK	
P41, P42				W*			DARK	
P61, P62					W*	W*	DARK	

NOTE: BLANK SPACES IN THIS CHART REPRESENT A "RED" SIGNAL INDICATION. *WALK INDICATION IS DISPLAYED WHEN PEDESTRIAN CALL IS SERVICED; WALK INDICATION IS DISPLAYED UNTIL IT IS TIMED OUT. OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.

INITIAL TIMING CHART

PHASE	1	2	3	4	6	7	8
MOVEMENT	WB WASH BLVD LEFT	EB WASH BLVD THRU	SB SYCAMORE SYCAMORE	NB SYCAMORE WASH BLVD THRU		WB WASH BLVD THRU	
PHASE ON	X	X	X	X	X	X	X
PHASE OFF							

PHASE TIMINGS

MIN GR	5.0	5.0	5.0	5.0	5.0	5.0	5.0
PASSAGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOW	4.5	4.5	3.8	3.6	4.5	4.5	4.5
RED	3.1	3.1	3.3	3.4	3.1	3.1	3.1
MAX 1	10.0	32.0	33.0	35.0	32.0	32.0	32.0
MAX 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN GAP	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIME BEFORE REDUCTION	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIME TO REDUCE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PED WALK	0.0	5.0	5.0	5.0	5.0	5.0	5.0
PED CLEARANCE	0.0	27.0	26.0	25.0	26.0	26.0	26.0
MODE	NON-LOCK	MIN RECALL	NON-LOCK	NON-LOCK	NON-LOCK	MIN RECALL	NON-LOCK

PHASE TIMINGS

MIN GR	5.0	5.0	5.0	5.0	5.0	5.0	5.0
PASSAGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOW	4.5	4.5	3.8	3.6	4.5	4.5	4.5
RED	3.1	3.1	3.3	3.4	3.1	3.1	3.1
MAX 1	10.0	32.0	33.0	35.0	32.0	32.0	32.0
MAX 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN GAP	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIME BEFORE REDUCTION	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIME TO REDUCE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PED WALK	0.0	5.0	5.0	5.0	5.0	5.0	5.0
PED CLEARANCE	0.0	27.0	26.0	25.0	26.0	26.0	26.0
MODE	NON-LOCK	MIN RECALL	NON-LOCK	NON-LOCK	NON-LOCK	MIN RECALL	NON-LOCK

POLE SCHEDULE

No.	POLE IDENTIFICATION	STATION	OFFSET	STANDARD			LUM. LED (4)	POLE SIGNAL MOUNTING				STREET NAME SIGN		
				TYPE	SIG. M.A. ORIENT.	SIG. M.A. (TYPE)		LUM. M.A. ORIENT.	LUM. M.A. (TYPE)	VEHICLE & PED. HEADS	PED. PUSH BUTTONS		SIGNALS	VIDEO DETECTOR PREEMPTION & CCTV
▲	107-MA-01-NW	142+91.63	48.25'RT	MAST ARM POLE 30'	180°	55'	180°	6' (STANDARD)	145W	11,61,62,P31	PB31	S-3,S-4,S-11	VD6,PE6,CCTV	S-1
▲	107-MA-01-NE	141+91.19	53.24'RT	MAST ARM POLE 30'	180°	50'	180°	6' (STANDARD)	145W	41,42,43,44	-	S-3,S-5,S-6,S-7	VD4,PE4	S-2
▲	107-MA-01-SW	141+62.24	33.82'LT	MAST ARM POLE 30'	180°	32'	180°	6' (STANDARD)	145W	21,22,23	-	S-5,S-8,S-9	VD2,PE2	S-1
▲	107-MA-01-SW	142+78.80	62.93'LT	MAST ARM POLE 30'	180°	48'	180°	6' (STANDARD)	145W	31,32,33,34,P32	PB32	S-3,S-7,S-10	VD3,PE3	S-2
▲	107-PP-01-NW	142+97.63	37.30'RT	PEDESTAL POLE 12'	-	-	-	-	-	P62	PB62	S-10	-	-
▲	107-PP-01-NE	141+93.36	43.34'RT	PEDESTAL POLE 12'	-	-	-	-	-	P42,P61	PB42,PB61	S-10,S-11	-	-
▲	107-PP-01-SW	141+79.13	40.86'LT	PEDESTAL POLE 12'	-	-	-	-	-	P22,P41	PB22,PB41	S-10,S-10	-	-
▲	107-PP-01-SW	142+87.51	53.11'LT	PEDESTAL POLE 12'	-	-	-	-	-	P21	PB21	S-11	-	-

* MAST ARM MOUNTED AT 19' HEIGHT.

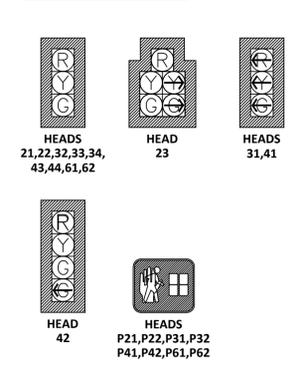
PROPOSED STREET NAME SIGNS



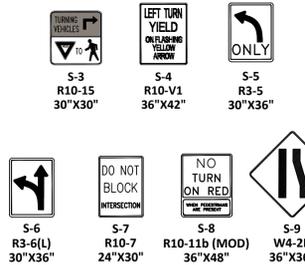
CONSTRUCTION NOTES

- EXISTING CONTROLLER AND CABINET TO BE REPLACED WITH NEW CONTROLLER AND CABINET ON A NEW FOUNDATION. ALL OTHER EXISTING EQUIPMENT TO BE REMOVED INCLUDING UNUSED WIRING, CONDUIT, AND JUNCTION BOXES, UNLESS OTHERWISE SPECIFIED. EXISTING CONTROLLER AND CABINET SHALL BE RETURNED TO ARLINGTON COUNTY.
- INSTALL SIGNAL CONTROLLER CABINET WITH UPS. CABINET SHALL BE ORIENTED TO PROVIDE TECHNICIAN VIEW OF SIGNAL DISPLAYS.
- INSTALL UNDERGROUND ELECTRIC SERVICE WITH PEDESTAL METERPAN. PROPOSED CONDUIT SHOWN TO THE APPROXIMATE LOCATION OF POWER SOURCE. TO BE FINALIZED BASED UPON ONGOING DVP COORDINATION.
- INSTALL NON-ORNAMENTAL MAST ARM SIGNAL POLE WITH MAST ARM MOUNTED AT 19' HEIGHT, POLE IDENTIFICATION STICKER, LUMINAIRE, PEDESTRIAN SIGNAL HEAD(S), AND POLARA PEDESTRIAN EQUIPMENT.
- INSTALL NON-ORNAMENTAL MAST ARM SIGNAL POLE WITH POLE IDENTIFICATION STICKER AND LUMINAIRE.
- INSTALL PEDESTAL POLE WITH POLE IDENTIFICATION STICKER, PEDESTRIAN SIGNAL(S), POLARA PEDESTRIAN EQUIPMENT, AND SIGN(S).
- SEE COMMUNICATION PLAN ON SHEET C-1200 FOR COMMUNICATION CONNECTION DETAILS.
- CONTRACTOR SHALL MOUNT S-9 SIGN AT 7' HEIGHT (MEASURED TO THE BOTTOM OF THE SIGN) AND S-8 SIGN AT 11.5' HEIGHT (MEASURED TO THE BOTTOM OF THE SIGN).
- INSTALL 61-04 TYPE 3 JUNCTION BOX.
- INSTALL 61-04 TYPE 5 JUNCTION BOX.

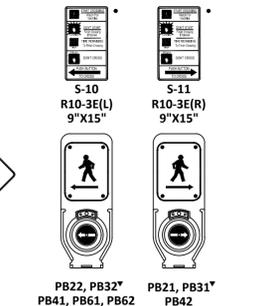
PROPOSED SIGNALS



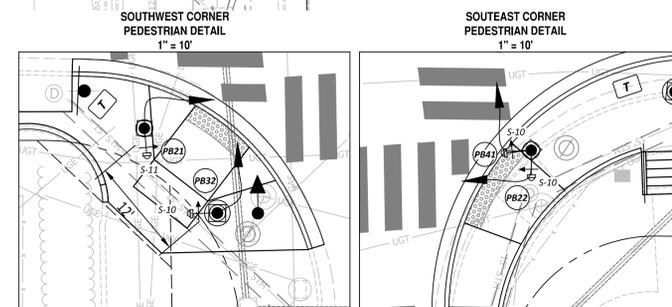
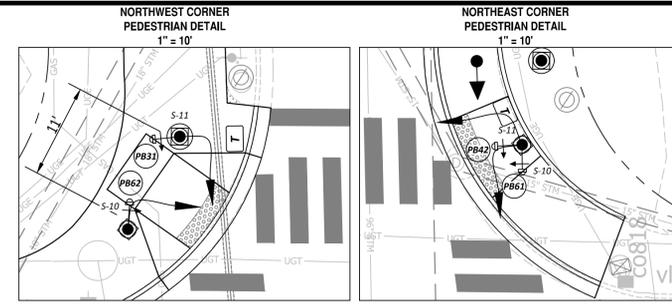
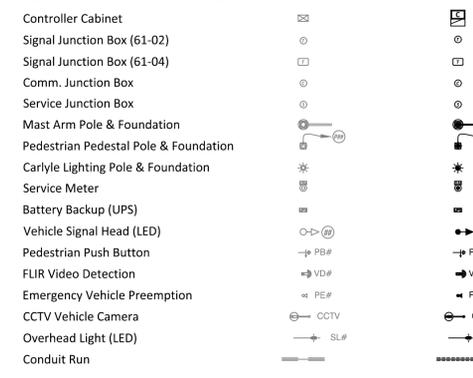
PROPOSED SIGNS



PROPOSED ACCESSIBLE PEDESTRIAN PUSHBUTTON



LEGEND



ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES

Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

SEAL

ANDREW T. SMITH
Lic. No. 0402053042
10/22/21
PROFESSIONAL ENGINEER

APPROVALS

NAME	DATE
10/28/21	
11/05/2021	
12.23.2021	
11/05/2021	
12/23/21	

REVISIONS

NO.	DATE

Project Name and Location
Washington Boulevard and N. Sycamore Street

TRAFFIC SIGNAL PLAN

ID #107
ARLINGTON COUNTY, VIRGINIA

Designed: AS
Drawn: LL
Checked: GG
Miss Utility Transmittal #:

Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 25' VERT. N/A

Sheet
C-1100

GENERAL NOTES

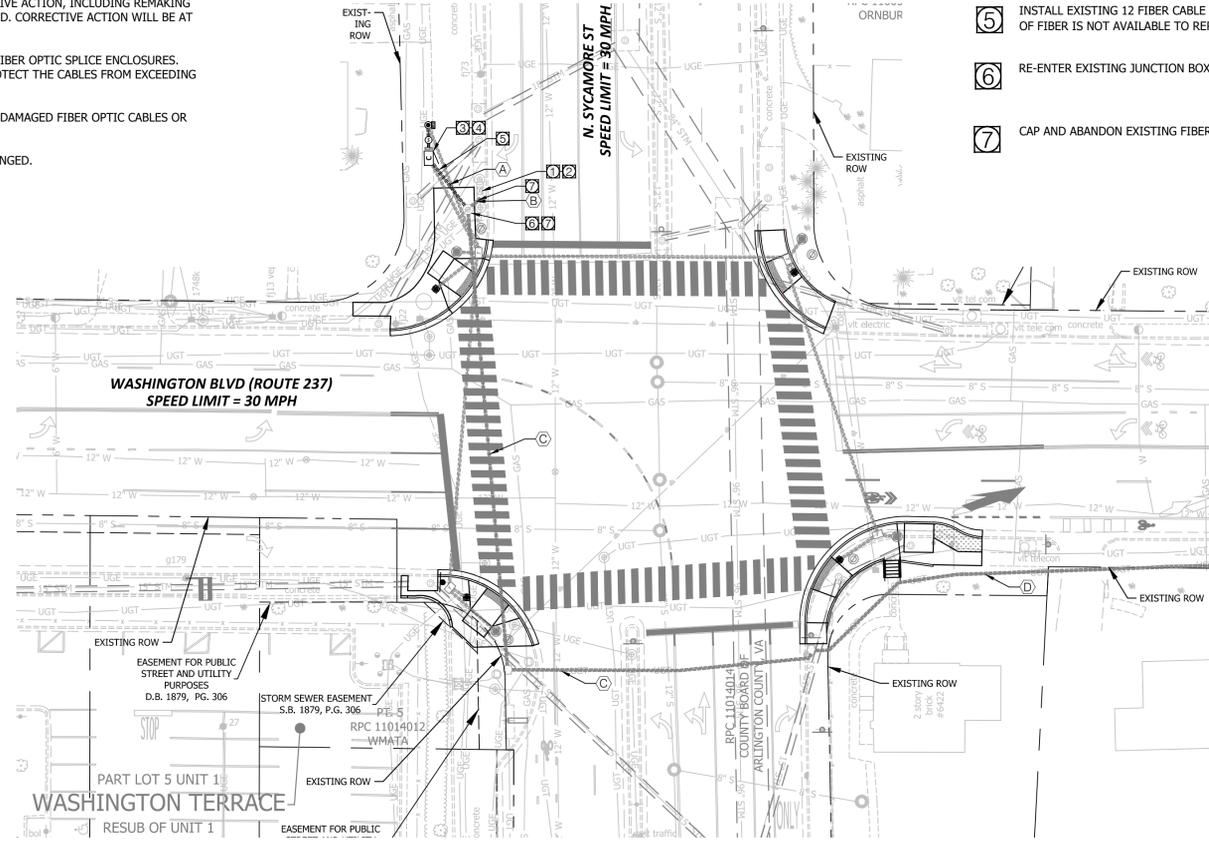
- 1. CONTRACTOR SHALL SUBMIT SPLICE ENCLOSURES FOR ENGINEER APPROVAL.
2. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO CUTTING OR DISCONNECTING ANY FIBER CABLE.
3. CONTRACTOR SHALL RE-SPLICE ALL FIBERS TO LIKE COLORED FIBERS AND SHALL MATCH LIKE COLORED BUFFER TUBES WITH LIKE COLORED BUFFER TUBES.
4. CONTRACTOR SHALL PERFORM BI-DIRECTIONAL OTDR TESTING ON ALL OF THE 144 FIBER OPTIC CABLES AND THE 12 FIBER CABLE FROM THEIR TERMINATION POINTS.
5. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH BI-DIRECTIONAL OTDR TEST RESULTS IN PDF FORMAT FOR APPROVAL.
6. THE CONTRACTOR SHALL NOT CUT OR DAMAGE EXISTING FIBER OPTIC CABLES OR FIBER OPTIC SPLICE ENCLOSURES.
7. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIR AND COSTS ASSOCIATED WITH DAMAGED FIBER OPTIC CABLES OR SPLICE ENCLOSURES DUE TO CONSTRUCTION ACTIVITIES.
8. ALL CABLING AND SPLICE ENCLOSURES IN JUNCTION BOXES SHALL BE NEATLY ARRANGED.

CONDUIT & CABLE RUNS

- A 2-2" CONDUIT PVC (NEW) 1-12 FIBER CABLE (EXISTING, RELOCATED)
B 1-2" CONDUIT PVC (EXISTING) 1-12 FIBER CABLE (TO BE RELOCATED)
C 1-2" CONDUIT PVC (EXISTING) 1-12 FIBER CABLE (EXISTING)
D 4-2" CONDUIT PVC (EXISTING) 2-144 FIBER CABLE (EXISTING)

CONSTRUCTION NOTES

- 1 CONTRACTOR SHALL REMOVE ALL COMMUNICATION EQUIPMENT TO INCLUDE: 12 FIBER PATCH PANEL AND FIBER CABLE, ETHERNET SWITCH AND JUMPER CABLES FROM EXISTING CONTROLLER CABINET.
2 EXISTING CONTROLLER LOCATION.
3 PROPOSED CONTROLLER LOCATION.
4 CONTRACTOR SHALL INSTALL RELOCATED 12 PATCH PANEL AND FIBER CABLE, ETHERNET SWITCH, AND JUMPER CABLES IN PROPOSED CONTROLLER CABINET.
5 INSTALL EXISTING 12 FIBER CABLE IN PROPOSED CONDUIT.
6 RE-ENTER EXISTING JUNCTION BOX WITH NEW CONDUIT.
7 CAP AND ABANDON EXISTING FIBER CONDUIT.



LEGEND

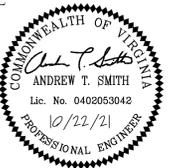
Table with 3 columns: Item Name, EXISTING, PROPOSED. Includes Controller Cabinet, Signal Junction Box (61-02), Comm. Junction Box, Service Junction Box, Battery Backup (UPS), and Conduit Run.



DEPARTMENT OF ENVIRONMENTAL SERVICES

Signal Systems and ITS Traffic Engineering and Operations Bureau 2100 Clarendon Boulevard, Suite 900 Arlington, VA 22201

SEAL



APPROVALS DATE

Table of approvals with columns for Name, Title, and Date. Includes Traffic Signal Engineer, Traffic Engineering Manager, Water, Sewer, Streets Bureau Chief, and Transportation Director.

REVISIONS DATE

Table for revisions with columns for Description and Date.

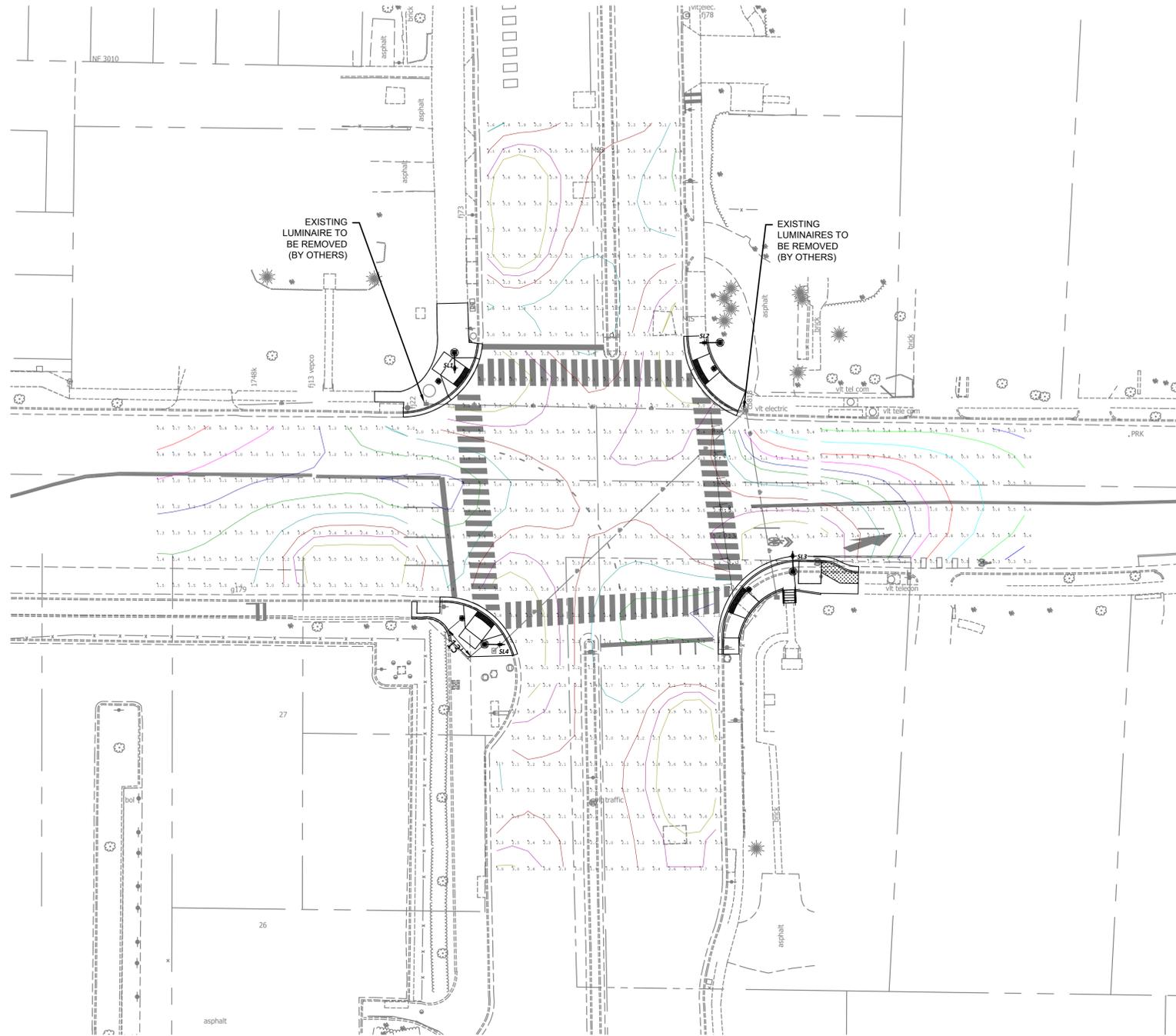
Project Name and Location: Washington Boulevard and N. Sycamore Street. COMMUNICATIONS PLAN. ID #107. ARLINGTON COUNTY, VIRGINIA.

Designed: AS, Drawn: LL, Checked: GG, Miss Utility Transmittal #:

Plotted: January 05, 2022, Plotted by: Nicole.McVey

Scale: HOR. 1" = 25' VERT. N/A

Sheet C-1200

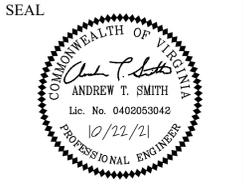


PHOTOMETRIC LEGEND

VALUE (FC)	COLOR	VALUE (FC)	COLOR
0.2	Black	1.2	Dark Blue
0.3	Blue	1.4	Green
0.4	Light Green	1.8	Cyan
0.6	Cyan	2.2	Red
0.8	Red	2.6	Purple
1.0	Magenta	3.0	Brown



DEPARTMENT OF ENVIRONMENTAL SERVICES
Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606



APPROVALS

NAME	DATE
<i>James Keller</i>	10/28/21
<i>John Nicks</i>	11/05/2021
<i>John Nicks</i>	12.23.2021
<i>John Nicks</i>	11/05/2021
<i>Dennis M. Leach</i>	12/23/21

REVISIONS

NO.	DATE

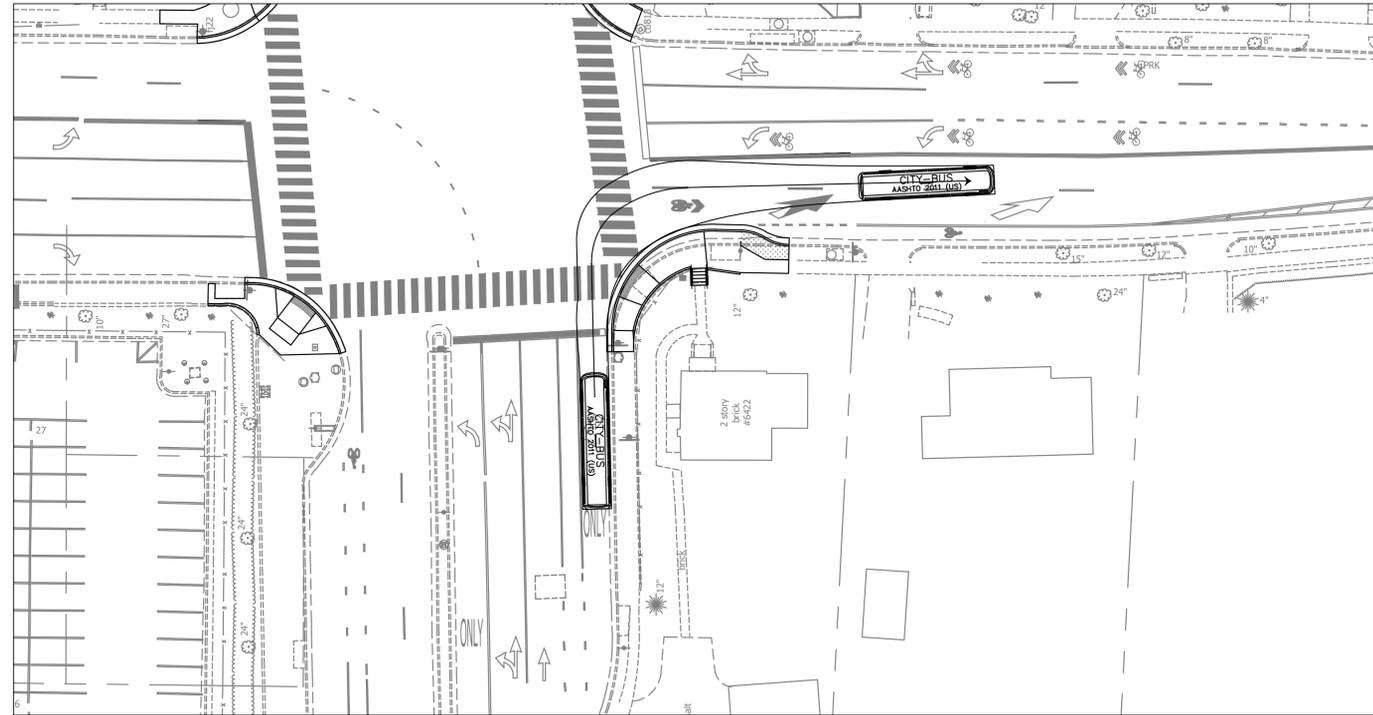
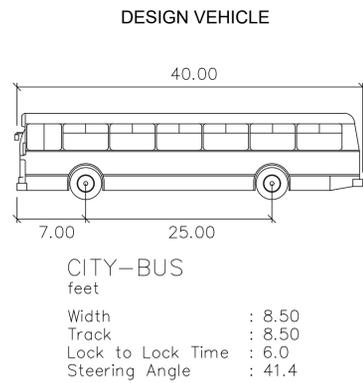
Project Name and Location
Washington Boulevard and N. Sycamore Street
PHOTOMETRICS EXHIBIT
ID #107
ARLINGTON COUNTY, VIRGINIA

Designed: AS
Drawn: NM
Checked: GG
Miss Utility Transmittal #:

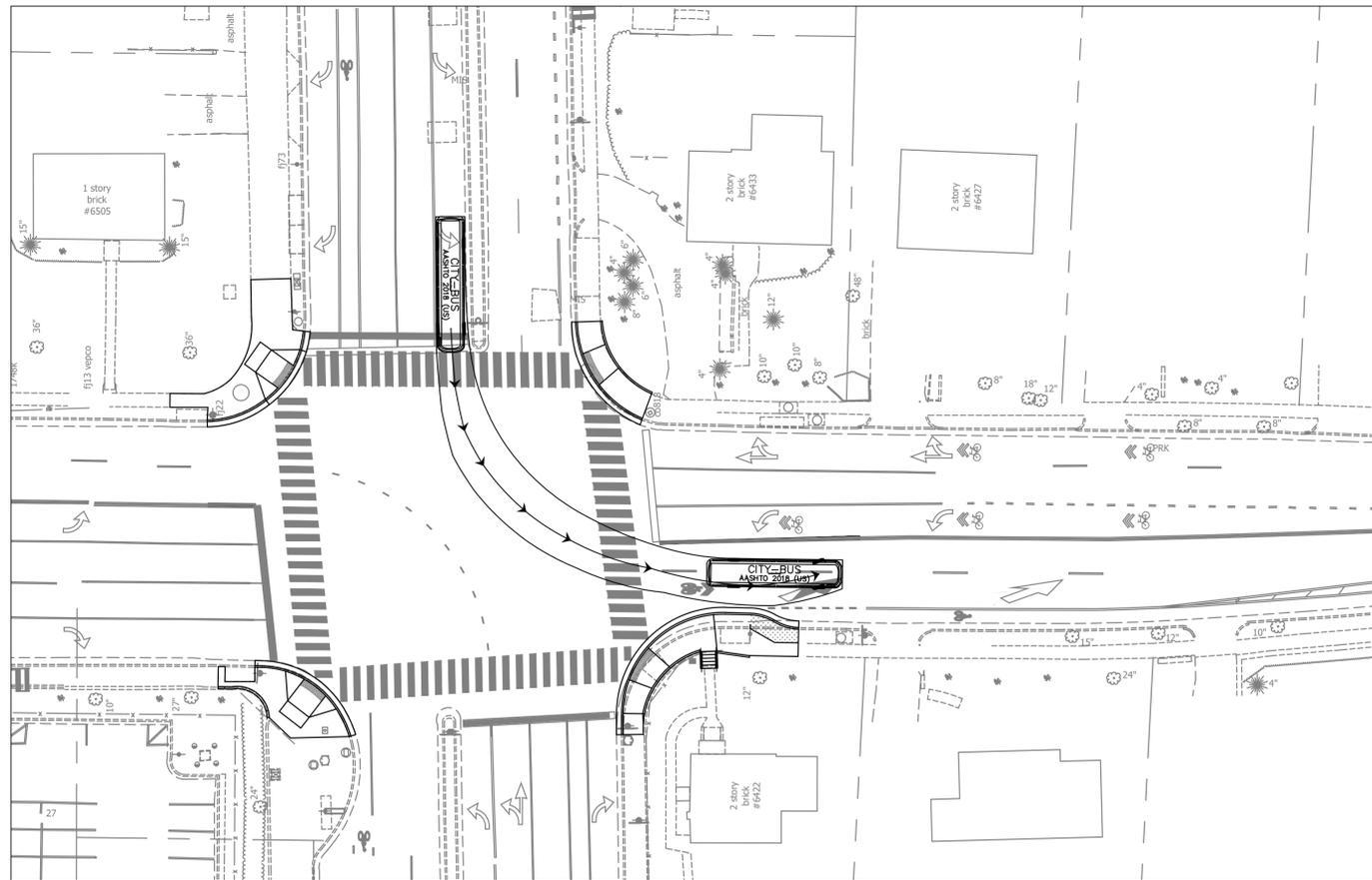
Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 25' VERT. N/A

Sheet
EXHIBIT A



NORTHBOUND RIGHT TURN



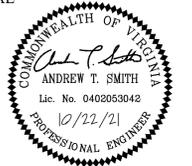
SOUTHBOUND LEFT TURN



DEPARTMENT OF ENVIRONMENTAL SERVICES

Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

SEAL



APPROVALS DATE

<i>[Signature]</i>	10/28/21
TRAFFIC SIGNAL ENGINEER	
<i>[Signature]</i>	11/05/2021
TRAFFIC ENGINEERING MANAGER	
<i>[Signature]</i>	12.23.2021
WATER, SEWER, STREETS BUREAU CHIEF	
<i>[Signature]</i>	11/05/2021
TE&O BUREAU CHIEF	
<i>[Signature]</i>	12/23/21
TRANSPORTATION DIRECTOR	

REVISIONS DATE

Project Name and Location
**Washington Boulevard and
N. Sycamore Street**
AUTOTURN EXHIBIT
ID #107
ARLINGTON COUNTY, VIRGINIA

Designed: AS
Drawn: NM
Checked: GG
Miss Utility Transmittal #:

Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. 1" = 25' VERT. N/A

Sheet
EXHIBIT B

2.4 POLLUTION PREVENTION PLAN:

- ONLY THE FOLLOWING NON-STORMWATER DISCHARGES ARE AUTHORIZED BY ARLINGTON COUNTY'S MS4 PERMIT, UNLESS THE STATE WATER CONTROL BOARD, THE VIRGINIA SOIL AND WATER CONSERVATION BOARD (BOARD), OR ARLINGTON COUNTY DETERMINES THE DISCHARGE TO BE A SIGNIFICANT SOURCE OF POLLUTANTS TO SURFACE WATERS: WATER LINE FLUSHING; LANDSCAPE IRRIGATION; DIVERTED STREAM FLOWS; RISING GROUND WATERS; UNCONTAMINATED GROUND WATER INFILTRATION (AS DEFINED AT 40 CFR 35.2005(20)); UNCONTAMINATED PUMPED GROUND WATER; DISCHARGES FROM POTABLE WATER SOURCES; FOUNDATION DRAINS; AIR CONDITIONING CONDENSATION; IRRIGATION WATER; SPRINGS; WATER FROM CRAWL SPACE PUMPS; FOOTING DRAINS; LAWN WATERING; INDIVIDUAL RESIDENTIAL CAR WASHING; FLOWS FROM RIPARIAN HABITATS AND WETLANDS; DECHLORINATED SWIMMING POOL DISCHARGES; DISCHARGES OR FLOWS FROM FIRE FIGHTING; AND OTHER ACTIVITIES GENERATING DISCHARGES IDENTIFIED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY AS NOT REQUIRING VPDES AUTHORIZATION.
- APPROPRIATE CONTROLS MUST BE IMPLEMENTED TO PREVENT ANY NON-STORMWATER DISCHARGES NOT INCLUDED ON THE ABOVE LIST (EG., CONCRETE WASH WATER, PAINT WASH WATER, VEHICLE WASH WATER, DETERGENT WASH WATER, ETC.) FROM BEING DISCHARGED INTO ARLINGTON COUNTY'S MS4 SYSTEM, WHICH INCLUDES THE CURB AND GUTTER SYSTEM, AS WELL AS CATCH BASINS AND OTHER STORM DRAIN INLETS, OR STREAM NETWORK.
- PER CHAPTER 26 OF THE ARLINGTON COUNTY CODE, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DISCHARGE DIRECTLY OR INDIRECTLY INTO THE STORM SEWER SYSTEM OR STATE WATERS, ANY SUBSTANCE LIKELY, IN THE OPINION OF THE COUNTY MANAGER, TO HAVE AN ADVERSE EFFECT ON THE STORM SEWER SYSTEM OR STATE WATERS.

2.0 Authorized Non-Stormwater Discharges

Type of Authorized Non-Stormwater Discharge	Likely Present at Your Project Site?	
External buildings wash down	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Uncontaminated foundation or footing drains	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Uncontaminated excavation dewatering	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Landscape irrigation	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Others [describe]	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

STORMWATER POLLUTION PREVENTION PLAN
Washington Boulevard at N. Sycamore Street

5.0 Potential Sources of Pollution & Pollution Prevention Practices

Pollutant-Generating Activity	Likely Present at your Project Site?	Pollutants										Pollution Prevention Practice	Responsible Party
		Sediment	Nutrients	Heavy Metals	pH (acids and bases)	Pesticides & Herbicides	Oil & Grease	Bacteria & Viruses	Trash, Debris, Solids	Other Toxic Chemicals			
Clearing, grading, excavating, and un-stabilized areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X									X	(1)	Construction Activity Operator (See Cover Page of this SWPPP)
Paving operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X					X			X	(2)		
Concrete washout and cement waste	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			X	X					X	(3)		
Structure construction, stucco, painting, and cleaning	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			X	X					X	X	(4)	
Dewatering operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X							X	(5)		
Material delivery and storage	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	X	X	X	X	X		X	X	X	(6)		
Material use during building process	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	X	X	X		X		X	X	(7)			
Solid waste disposal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									X	X	(8)	
Sanitary waste	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		X	X				X			(9)		
Landscaping operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X			X			X	X	(10)		
Others [describe]	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	X	X	X	X	X	X	X	X	X	(11)		

Arlington County – SWPPP 9/2016

Pollution Prevention Practices:

- Clearing, grading, excavating and un-stabilized areas** – Utilize erosion and sediment controls to prevent sediment laden or turbid runoff from leaving the construction site. Dispose of clearing debris at acceptable disposal sites. Apply permanent or temporary stabilization, sodding and/or mulching to denuded areas in accordance with the erosion and sediment control specifications and the general VPDES permit for discharges of stormwater from construction activities.
- Paving operations** – Cover storm drain inlets during paving operations and utilize pollution prevention materials such as drip pans and absorbent/oil dry for all paving machines to limit leaks and spills of paving materials and fluids.
- Concrete washout and cement waste** – Direct concrete wash water into a leak-proof container or leak-proof settling basin that is designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes.
- Structure construction, stucco, painting and cleaning** – Enclose, cover or berm building material storage areas if susceptible to contaminated stormwater runoff. Conduct painting operations consistent with local air quality and OSHA regulations. Mix paint indoors, in a containment area or in a flat unpaved area. Prevent the discharge of soaps, solvents, detergents and wash water from construction materials, including the clean-up of stucco paint, form release oils and curing compounds.
- Dewatering operations** – Construction site dewatering from building footings or other sources may not be discharged without treatment. Sediment laden or turbid water shall be filtered, settled or similarly treated prior to discharge.
- Material delivery and storage** – Designate areas of the construction site for material delivery and storage. Place near construction entrances, away from waterways, and avoid transport near drainage paths or waterways.
- Material use during building process** – Use materials only where and when needed to complete the construction activity. Follow manufacturer's instructions regarding uses, protective equipment, ventilation, flammability and mixing of chemicals.
- Solid waste disposal** – Designate a waste collection area on the construction site that does not receive a substantial amount of runoff from upland areas and does not drain directly to a waterway. Ensure that containers have lids so they can be covered before periods of rain, and keep containers in a covered area whenever possible. Schedule waste collection to prevent the containers from overflowing.
- Sanitary waste** – Prevent the discharge of sanitary waste by providing convenient and well-maintained portable sanitary facilities. Locate sanitary facilities in a convenient location away from waterways.
- Landscaping operations** – Maintain as much existing vegetation as practicable. Apply permanent or temporary stabilization, sodding and/or mulching to denuded areas in accordance with the erosion and sediment control specifications and the general VPDES permit for discharges of stormwater from construction activities. Apply nutrients in accordance with manufacturer's recommendations and not during rainfall events.

7.0 Spill Prevention & Response

Most spills can be cleaned up following manufacturer specifications. Absorbent/oil dry, sealable containers, plastic bags, and shovels/brooms are suggested minimum spill response items that should be available at this location.

- 1st Priority: Protect all people
- 2nd Priority: Protect equipment and property
- 3rd Priority: Protect the environment

- Check for hazards (flammable material, noxious fumes, cause of spill) – If flammable liquid, turn off engines and nearby electrical equipment. If serious hazards are present leave the area and call 911. **LARGE SPILLS ARE LIKELY TO PRESENT A HAZARD.**
- Make Sure the spill area is safe to enter and that it does not pose an immediate threat to health or safety of any person.
- Stop the spill source.
- Call co-workers and supervisor for assistance and to make them aware of the spill and potential dangers.
- If possible, stop spill from entering drains (use absorbent or other material as necessary).
- Stop spill from spreading (use absorbent or other material)
- If spilled material has entered a storm sewer, contact locality's storm water department.
- Clean up spilled material according to manufacturer specifications, for liquid spills use absorbent materials and do not flush area with water.
- Properly dispose of cleaning materials and used absorbent material according to manufacturer specifications.

Emergency Contacts:

Normal Working Hours

DEQ Northern Regional Office 703-583-3800

Nights, Holidays & Weekends

VA Dept. of Emergency Management 804-674-2400
24 Hour Reporting Service

Local Contacts

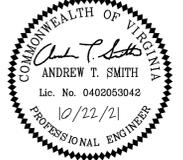
Arlington County Fire & Police 703-558-2222
DES Water, Sewer, Streets 24-Hour Emergency 703-228-6555
Washington Gas Emergency 703-750-1400



DEPARTMENT OF ENVIRONMENTAL SERVICES

Signal Systems and ITS
Traffic Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

SEAL



APPROVALS DATE

<i>James Keller</i>	10/28/21
<i>John Nicks</i>	11/05/2021
<i>John Nicks</i>	12.23.2021
<i>John Nicks</i>	11/05/2021
<i>Dennis M. Leach</i>	12/23/21

REVISIONS DATE

Project Name and Location
Washington Boulevard and N. Sycamore Street
SWPPP
ID #107
ARLINGTON COUNTY, VIRGINIA

Designed: AS
Drawn: NM
Checked: GG
Miss Utility Transmittal #:

Plotted: January 05, 2022
Plotted by: Nicole.McVey

Scale:
HOR. N/A VERT. N/A

Sheet
EXHIBIT C